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30TH SEMI-ANNUAL WATER QUALITY MONITORING REPORT

J.E.D. Solid Waste Management Facility

Prepared for

Waste Connections of Osceola County, LLC
1501 Omni Way
St. Cloud, Florida 34773

Prepared by

Geosyntec Consultants, Inc.
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Clearwater, FL 33765

Project FR3347

August 5, 2019

DRAFT

30th SEMI-ANNUAL WATER QUALITY MONITORING REPORT

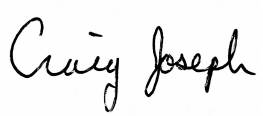
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ACRONYMS AND ABBREVIATIONS

AEL	Advanced Environmental Laboratories
CCA	Chromated Copper Arsenate
CFR	Code of Federal Regulations
COC	Chain of Custody
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOH	Florida Department of Health
ft BLS	Feet Below Land Surface
ft	Feet
GCTL	Groundwater Cleanup Target Level
in	Inches
JED	J.E.D. Solid Waste Management Facility
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter
MPIS	Monitoring Plan Implementation Schedule
N	Nitrogen
NELAC	National Environmental Laboratory Accreditation Conference
NGVD	National Geodetic Vertical Datum of 1929
NTU	Nephelometric Turbidity Units
WCOC	Waste Connections of Osceola County, LLC
ORP	Oxidation Reduction Potential
PDWS	Primary Drinking Water Standards
PQL	Practical Quantitation Limit
PVC	Polyvinyl Chloride

RPD	Relative Percent Difference
SDWS	Secondary Drinking Water Standards
SU	pH Standard Units
TDS	Total Dissolved Solids
TRQW	Technical Reports on Water Quality
WC	Waste Connections

REGISTERED PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the field work and preparation of this document, in accordance with State Rules and Regulations. As a registered professional geologist, I certify that I am a qualified groundwater professional, as defined by the Florida State Board of Professional Geologists. All of the information and laboratory data in this document and in all of the attachments are true, accurate, complete, and in accordance with applicable state rules and regulations.



Matthew Wissler, P.G.
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No. 2521

August 5th, 2019

Date

1. INTRODUCTION

Geosyntec Consultants (Geosyntec), on behalf of Waste Connections (WC), is pleased to provide this report to the Florida Department of Environmental Protection (FDEP) for the J.E.D. Solid Waste Management ("JED") facility. This report summarizes and provides interpretation of the water quality monitoring performed in accordance with the Monitoring Plan Implementation Schedule (MPIS) prepared as part of the JED facility permit application. The MPIS requirements are presented in Appendix 3 of the June 13, 2017 FDEP-issued JED facility Operating Permit (Permit No. 0199726-033-SO-01 ["the Permit"]).

Geosyntec has prepared this report for WC, parent company of Waste Connections of Osceola County, LLC ("WCOC"), owner and operator of the JED facility. A completed water quality certification form (FDEP Form 62-701.900[31]) is included in **Appendix A**.

1.1 Overview

The MPIS establishes a water quality monitoring program that measures and reports groundwater and surface water conditions and groundwater flow direction across the JED facility. The 30th semi-annual water quality monitoring event was completed between May 13 and May 17, 2019. This report presents the sample locations, sampling procedures, laboratory analyses and results, field data measurements, groundwater level measurements, groundwater flow direction, and surface water quality monitoring. In addition, the current analytical results are compared to applicable Groundwater Cleanup Target Levels (GCTLs) as promulgated in Chapter 62-777 F.A.C.

1.1.1 Site Description

The JED facility is located in eastern Osceola County, Florida, west of highway U.S. 441, approximately 6.5 miles south of Holopaw. The facility is a Class I landfill which is linked to highway U.S. 441 by a 2.9-mile access road. The JED facility comprises a total of approximately 2,179 acres. The landfill footprint at build-out will be approximately 360 acres and consist of 23 landfill cells that will provide available waste capacity for a period of approximately 30 years.

In October 2003, the FDEP issued a permit to construct and operate Phase 1 of the JED facility. Phase 1 includes four landfill cells (Cells 1 through 4) located in the northern part of the landfill and encompassing approximately 54 acres. All components of the Phase 1 development have been constructed. As part of Phase 1, 45 groundwater monitoring wells were installed in 15 clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. The baseline water quality report for the Phase 1 monitoring well network was submitted to the FDEP in May 2004 (Geosyntec, 2004).

In March 2007, the FDEP issued a permit to construct and operate Phases 2 (Cells 5 through 7) and 3 (Cells 8 through 10), which encompass a total footprint of approximately 72 acres. As part of Phases 2 and 3, and as approved by the FDEP, six (6) existing Phase 1 monitoring wells (MW-14A, B, and C, and MW-15A, B, and C) were decommissioned to allow for the construction

of future cells and the construction of a storm water retention basin located within Phases 2 and 3. The decommissioning of the monitoring wells was discussed in the *Phases 2 and 3 Groundwater Monitoring Report* (Geosyntec, 2008). In September 2007, for the development of Phases 2 and 3, 24 additional monitoring wells were installed in eight (8) well clusters (MW-16 through MW-23) around the perimeter of the Phases 2 and 3 development areas.

In April 2008, the FDEP issued a permit to construct and operate Phases 1 through 3 with vertical expansion. In April 2009, the MPIS for the semi-annual water quality monitoring well network was modified for Phases 1 through 3. The modification included a reduction in the number of Phase 3 monitoring wells requiring semi-annual sampling until such time that waste placement commences in one of the Phase 3 cells (i.e., Cells 8, 9, or 10), and the sampling schedule was modified for B-zone (intermediate depth) and C-zone (deep) monitoring wells. The new schedule included:

1. November sampling of C-zone monitoring wells (MW-1C through MW-13C, MW-16C, and MW-19C through MW-23C) and one B-zone monitoring well (MW-16B) with January reporting.
2. May sampling of B-zone monitoring wells (MW-1B through MW-13B, MW-16B, and MW-19B through MW-23B) and one C-zone monitoring well (MW-16C), with July reporting.

Cell 1 was completed in January 2004, Cell 4 was completed in May 2005, Cell 2 was completed in April 2006, Cell 3 was completed in October 2006, Cell 5 was completed in October 2007, Cell 6 was completed in July 2008, and Cell 7 was completed in August 2010. In August 2011, the FDEP issued a permit to construct a lateral expansion of the facility, which authorized construction of Phases 3 through 8 (Cells 8 through 23). Cell 8 was completed in April 2012. During construction startup of Cell 8 in November 2011, monitoring well cluster MW-22 (A, B and C) was decommissioned to accommodate the perimeter road access to Cell 8. Replacement well cluster MW-22R (AR, BR and CR) was installed in March 2012 on the perimeter access road approximately 800 feet (ft) south of well cluster MW-23. The MW-22 cluster abandonment and MW-22R cluster installation activities were presented in the *Water Quality Monitoring Installation Report (Cluster MW-22R)* and submitted to the FDEP in April 2012 (Geo-Services and Consulting, LLC [GS&C], 2012). The initial groundwater monitoring of cluster MW-22R was conducted on March 19, 2012 and the results presented in the *Initial Water Quality Report Monitoring Well Cluster MW-22R* (GS&C, 2012) and submitted to the FDEP in July 2012.

The Cell 9 disposal area construction was completed in October 2013. As with previous construction and expansion efforts (e.g., Cell 8 disposal area) well cluster MW-20 was installed in a temporary location on the Phase 3 storm water berm. Cell 9 construction activities included substantial modifications to the berm and as such, the MW-20 well cluster was abandoned on June 24, 2013. At the same time, the MW-16 well cluster was abandoned at its temporary location. In October 2013, replacement wells MW-16AR, MW-16BR, and MW-16CR were installed in a permanent location on the backside of the perimeter berm near the Cell 9 sump. The monitoring well abandonment and installation report was submitted to the FDEP in November 2013 (Weibu, LLC 2013).

On December 24, 2013, a permit minor modification application was submitted to the FDEP to request a modification to the MPIS prior to the initiation of construction of Cell 10 of Phase 3 and Cells 11-13 of Phase 4. The minor modification was approved by the FDEP in January 2014. The major changes include:

- the installation and sampling schedule of monitoring wells for the Phase 3, Cell 10 and Phase 4 construction (includes Cells 11, 12, and 13);
- the removal of the "C" zone wells from the semi-annual sampling schedule; and
- the installation of only "A" and "B" zone wells at the new monitoring well cluster locations.

The January 2014 MPIS modifications were implemented during the 20th semi-annual groundwater sampling event in May 2014, and in an email dated May 14, 2014, the FDEP, based on review of past semi-annual water quality monitoring reports, removed total phenols analysis from the laboratory parameters list in Requirement 9 of the MPIS.

Construction of the Cell 10 disposal area began in March 2014 which necessitated the abandonment of temporary groundwater monitoring well clusters MW-17, 18, 19, and 21. The wells were located on the Phase 3 interim storm water berm and were abandoned during Cell 10 construction on March 5, 2014. The monitoring well abandonment report was submitted to the FDEP on March 13, 2014. The installation of monitoring well clusters MW-17R, MW-24, MW-25, and MW-26, which are associated with the completion of Cell 10 and initiation of Phase 4 construction activities, was summarized in a report submitted to the FDEP on July 30, 2014 (Weibu, LLC 2014).

Construction of the Cell 11 disposal area began in March 2015. As part of the construction, detection monitoring well clusters MW-27, MW-28, and MW-29 were installed along the outside perimeter of the cell in accordance with the MPIS (revised January 30, 2015, FDEP File No. 0199726-027-SO-MM). Per the FDEP Permit requirements, new well clusters included shallow surficial aquifer monitoring wells (MW-27A, MW-28A, and MW-29A) and intermediate surficial aquifer monitoring wells (MW-27B, MW-28B, and MW-29B). The monitoring well installation and initial sampling report was submitted to the FDEP in September 2015 (Geosyntec, 2015).

Construction of Cell 13 began in December 2015. Detection monitoring wells MW-26A and MW-26B, located on the interim Phase 4 storm water berm, required abandonment to accommodate cell construction. The MW-26 cluster was abandoned on June 15, 2016. Monitoring wells MW-31A and MW-31B were installed on June 16, 2016 as replacements for cluster MW-26 and are located along the west perimeter of Cell 13. A report summarizing the monitoring well abandonment and installation activity and the initial sampling activities was submitted to the FDEP in October 2016 (Weibu, LLC, 2016).

Construction of Cell 12 was completed on May 20, 2019. Detection monitoring wells MW-30A and MW-30B were installed in March 2019 and are located along the southwest corner of Cell 12. A report summarizing the monitoring well installation activity and the initial sampling activities was submitted to the FDEP in May 2019 (Weibu, LLC, 2019).

2. MONITORING WELL DETAILS

2.1 Well Layout and Construction

For the Phase 1 development, 45 groundwater monitoring wells were installed in fifteen clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. In accordance with the FDEP permit requirements, monitoring well clusters were located such that the spacing between clusters was no greater than 500 ft. For development of Phase 2 and Phase 3, 24 groundwater monitoring wells were installed in eight clusters (MW-16 through MW-23) around the perimeter of the Phase 2 and Phase 3 development areas. In accordance with the FDEP permit requirements, the monitoring well clusters were located such that the spacing between detection well clusters (MW-16 through MW-21) was approximately 500 ft, and the spacing between background well clusters (MW-22R and MW-23) was approximately 800 ft. Each of these well clusters consist of three (3) groundwater monitoring wells installed (i) across the water table to monitor the upper limit of the surficial aquifer (identified as A-zone [shallow] wells), (ii) within the lower limit of the upper surficial aquifer above the intermediate clay layer (identified as C-zone [deep] wells), and (iii) at an intermediate depth between the shallow and deep wells (identified as B-zone [intermediate] wells).

During the Phase 4, Cell 10 construction, four (4) well clusters (MW-17, MW-18, MW-19, and MW-21) were abandoned and three (3) well clusters (MW-24, MW-25, and MW-26) were installed along the Phase 4 interim storm water berm. Monitoring well clusters MW-24 through MW-26 were approximately 1,400 ft apart. In addition, replacement monitoring well cluster MW-17R was installed adjacent to Cell 10. Three monitoring well clusters (MW-27, MW-28, and MW-29) were installed during construction of Cell 11 along the outside perimeter of the cell. Per the FDEP Permit requirements, the well clusters included shallow surficial aquifer monitoring wells (MW-27A, MW-28A, and MW-29A) and intermediate surficial aquifer monitoring wells (MW-27B, MW-28B, and MW-29B). The monitoring well installation and initial sampling report was submitted to the FDEP in September 2015 (Geosyntec, 2015). One (1) new well cluster (MW-30) was installed in the southwest corner of the landfill during the Phase 4, Cell 12 construction. The monitoring well installation and initial sampling report for MW-30 was submitted to FDEP in May 2019 (Weibu, LLC, 2019).

A Site map showing the location of all Site monitoring wells is included as **Figure 1**. The location of the shallow (A-zone), intermediate (B-zone), and deep (C-zone) groundwater monitoring wells installed for Phase 1 through Phase 4 are shown on **Figure 2**, **Figure 3**, and **Figure 4**, respectively. Groundwater monitoring well clusters MW-1 through MW-13, MW-16R, MW-17R, MW-22R, MW-23, MW-27 through MW-31 were installed along the top of the outer edge of the landfill perimeter berm. The ground surface at the location of the wells in the perimeter berm has an elevation of approximately 92 ft with respect to National Geodetic Vertical Datum of 1929 (NGVD, 1929). Groundwater monitoring well clusters MW-24 and MW-25 were installed along the Phase 4 interim storm water berm. The ground surface at these two (2) well locations has an elevation of approximately 84 ft NGVD, 1929. The location of each well, in Florida state plane

coordinates and latitude/longitude, and elevation were surveyed by a Florida-registered professional land surveyor.

Monitoring wells were constructed with 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 10 ft of #6-slot (0.006-in.) PVC screen. A 30/45 graded silica sand was placed around the screen to a height of two (2) to three (3) ft above the top of the screen. A seal of 30/65 graded fine silica sand was placed above the sand filter around the screen. The remaining annular space from the top of the fine sand filter seal to the existing ground surface was grouted using a tremie pipe with a cement/bentonite mixture containing no more than 5 percent bentonite by dry weight. The PVC well casings were extended approximately two and a half (2.5) to three (3) ft above the existing ground surface. Surface completion consisted of a protective aluminum casing with a lockable cover set in a concrete pad. Each well was provided with a well cap, padlock, and an identification label. A summary of the monitoring well construction details is presented in **Table 1**.

2.2 Turbidity Issues

As discussed in the baseline water quality reports for the Phase 1 through Phase 3 monitoring networks (Geosyntec 2004; Geosyntec 2008) the formation around the screened intervals consists primarily of a fine, brown to dark brown, silty sand. Due to the subsurface formation properties, fine-grained material can pass through the sand filter pack in many wells, primarily in the B-zone and C-zone wells. This is the case even though the wells are constructed using the smallest screen slot size (0.006 in.) commonly available. Most of the intermediate and deep wells have had turbidity values greater than the 20 nephelometric turbidity units (NTUs) criterion even after extended well development and the removal of multiple well volumes.

The difficulty in attaining the desired turbidity criterion was originally discussed at a meeting between Geosyntec Consultants (Geosyntec) and the FDEP on January 12, 2004 during the well development activities associated with the wells installed as part of the Phase 1 development. Geosyntec notified the FDEP again on September 14, 2007 of the elevated turbidity levels observed after extended well development during the development of Phase 2 and 3 monitoring wells. In accordance with these discussions, it was agreed that field-filtered (1-micron) and unfiltered samples would be collected for metals analyses for any sample with a turbidity value greater than 20 NTUs. The data generated by the dual sampling is expected to help demonstrate (i) what effect turbidity may have on metal analyses (i.e., by comparing total and dissolved metals concentrations) and (ii) whether groundwater samples with turbidities greater than 20 NTUs show higher concentrations of metals than those samples with turbidities less than 20 NTUs. All samples collected in May 2019 were sampled with turbidity values below 20 NTUs.

3. MONITORING WELL SAMPLING

3.1 Sampling Locations and Procedures

In accordance with the MPIS, 26 monitoring wells installed as part of the Phase 1 development, eight (8) of the monitoring wells installed as part of the Phase 2 and 3 developments, 14 of the monitoring wells installed as part of the Phase 4 development, and three compliance wells (total of 51 wells) were sampled during the 30th semi-annual monitoring event. Monitoring wells sampled this event included A and B-zone wells MW-1 through MW-13, MW-16R, MW-17R, MW-22R, MW-23, MW-24, MW-25, MW-27 through MW-31 and A-zone compliance wells CW-1A, CW-2A, and CW-3A. Low-flow sampling techniques were used for groundwater sample collection. All groundwater sampling was performed in accordance with the current applicable FDEP Standard Operating Procedures (DEP-SOP-001-01, April 2018) for groundwater sampling. Additionally, for quality control purposes, two (2) duplicate samples (MW-10B, MW-13A) and two (2) equipment blank were collected and analyzed for the same constituents as the monitoring wells. Peristaltic pumps were used to purge and sample all wells. Each monitoring well was purged and sampled using new tubing (silicone and/or high-density polyethylene).

During the purging process, a YSI 556 water quality meter equipped with a flow-through cell was used to monitor the following groundwater field parameters: pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen. Turbidity levels were measured using a HACH 2100Q turbidity meter. Field parameters were recorded on sample collection forms, which are included in **Appendix B**. When the field parameters stabilized within the acceptable tolerances required by the FDEP SOP, well purging was considered complete and groundwater samples were collected.

The calibration of the water quality monitoring instruments was checked daily, and the instruments were re-calibrated when necessary. Water quality instrument calibration forms are presented in **Appendix C**. Samples were placed in coolers and packed with bagged ice for transport to the analytical laboratory. Chain-of-custody (COC) forms were completed and accompanied the samples to the analytical laboratory. All COC forms are included with the associated analytical laboratory reports included as **Appendix D**. A trip blank was included with each cooler, and security seals were affixed to every cooler shipped.

3.2 Sample Analyses

Samples were analyzed by Advanced Environmental Laboratories (AEL) in Jacksonville, Florida in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) standards. AEL holds certification from the Florida Department of Health (FDOH) for the analytical test methods used for this project and is certified in the State of Florida for analysis of environmental samples.

Groundwater samples were analyzed by AEL for total ammonia as nitrogen (N), chloride, nitrate, total dissolved solids (TDS), iron, mercury, sodium, and the 40 Code of Federal Regulations (CFR) Part 258 Appendix I parameters. Other required parameters (i.e., pH, temperature, conductivity,

turbidity, ORP, and dissolved oxygen) were measured in the field during collection of the groundwater samples.

4. SAMPLING RESULTS

4.1 Field Parameters

Table 2 provides a summary of the field measurements of selected water quality parameters utilized determining sample stability for this semi-annual monitoring event. The secondary drinking water standard (SDWS) range for pH is 6.5 to 8.5 standard units (SU). The groundwater pH was below the SDWS in all site wells sampled during this event with pH values ranging from 3.85 to 5.43 SU. The groundwater pH values measured at the site have historically been below the SDWS lower limit of 6.5 SU.

4.2 Laboratory Analytical Results

The analytical laboratory results for this groundwater sampling event are included in **Appendix D**. Analytical results have been summarized in **Table 3** to show all parameters where a constituent concentration was reported above the laboratory practical quantitation limit (PQL) in at least one monitoring well. Any parameter exceeding the applicable FDEP GCTL, Primary Drinking Water Standard (PDWS), or SDWS has been highlighted orange. The following discussion regarding groundwater quality is organized by analytical method and is limited to those parameters where the GCTL, PDWS, or SDWS was exceeded in at least one groundwater monitoring well.

4.2.1 Total Metals (Methods 6020B and 6010B)

4.2.1.1 Arsenic

Arsenic was detected above the GCTL of 10 micrograms per liter (µg/L) in one (1) monitoring well: compliance well CW-1A (160 µg/L). Arsenic has historically exceeded the GCTL in this well, including during the initial sampling event in December 2013. CW-1A was installed to delineate the area west of MW-3A, which typically has an arsenic concentration less than 10 µg/L. Therefore, this localized arsenic detection appears to be naturally occurring or may be from a utility pole located approximately 20 ft from CW-1A, which may have been treated with an arsenic compound such as chromated copper arsenate (CCA). No other landfill related parameters have been detected in CW-1A above GCTLs.

4.2.1.2 Iron

Iron was detected above the SDWS of 300 µg/L in twenty-three (23) of the A-zone monitoring wells sampled, with the concentrations ranging between 490 and 96,000 µg/L. The highest A-zone iron concentration was detected in MW-31A. Iron was detected above the SDWS in twenty-two (22) of the B-zone monitoring wells sampled this event, with concentrations ranging between 360 and 56,000 µg/L. The highest B-zone iron concentration was detected in MW-31B. Iron was detected in compliance wells CW-1A and CW-3A with concentrations of 8,500 and 4,900 µg/L, respectively. Iron has historically exceeded the SDWS in most wells during all of the monitoring

events, including the baseline events. The iron concentrations reported for the 30th semi-annual event are consistent with period of record data.

4.2.1.3 Sodium

Sodium was detected above the PDWS of 160 milligrams per liter (mg/L) in monitoring well MW-1A (250 mg/L), MW-1B (250 mg/L), MW-13A/duplicate (350/380 mg/L), MW-16AR (210 mg/L), MW-23A (250 mg/L), MW-23B (340 mg/L) and in compliance wells CW-2A (180 mg/L) and CW-3A (310 mg/L). The sodium detections will be addressed in the next Technical Report per 62-701.510(8)(b), F.A.C.

4.2.2 Ammonia-N (Method 350.1)

Per the FDEP memo dated December 3, 2012, the default GCTL for ammonia of 2.8 mg/L is no longer regulated as a specific groundwater quality standard. Ammonia was detected above the default GCTL in eighteen (18) of the A-zone monitoring wells, with concentrations ranging from 3.4 mg/L to 22 mg/L and the highest concentration being from MW-10A. Ammonia was detected above the default GCTL in seven (7) of the intermediate monitoring wells, with concentrations ranging from 4.6 mg/L to 19 mg/L and the highest concentration being from the MW-23B. Ammonia was detected above the default GCTL in CW-2A and CW-3A, with concentrations of 18 and 14 mg/L, respectively. Ammonia has been detected in most of these wells during previous sampling events. Under reducing geochemical conditions, nitrogen containing compounds can be converted to ammonia. Reducing conditions are favorable in the shallow aquifer at the site and may develop in several ways such as the shadow effect of the lined disposal areas preventing the infiltration of oxygen-rich precipitation, displacement of oxygen by landfill gas immediately above the water table, or high organic matter content found in site soils that promotes the growth of oxygen consuming microorganisms (HDR Engineering, Inc., 2012). The elevated levels of ammonia are likely naturally occurring and have been discussed extensively ([Geosyntec, August 2016], [Geosyntec, July 2014], and [HDR Engineering, Inc., 2012]).

4.2.3 TDS (Method SM 2540C)

TDS concentrations were detected above the SDWS of 500 mg/L in twelve (12) shallow monitoring wells, with concentrations ranging from 530 mg/L to 1,600 mg/L and the highest concentration being from monitoring well MW-13A. TDS concentrations were detected above the SDWS in eleven (11) intermediate monitoring wells, with concentrations ranging from 900 mg/L to 1,600 mg/L and the highest concentration being from MW-5B. TDS concentrations were detected above the SDWS in compliance wells CW-2A and CW-3A, with concentrations of 1,300 and 1,600 mg/L, respectively. TDS is an indicator parameter whose value can be attributable to the presence of major cations and anions, such as calcium, magnesium, sodium, chloride, and sulfate. The TDS detections will be addressed in the next Technical Report per 62-701.510(8)(b), F.A.C.

4.2.4 Chloride (Method 300.0)

Chloride was detected above the SDWS of 250 mg/L in shallow monitoring wells MW-1A (550 mg/L), MW-13A (1,200 mg/L), MW-16AR (460 mg/L), MW-23A (680 mg/L), MW-24A (300 mg/L), intermediate monitoring wells MW-1B (730 mg/L), MW-2B (330 mg/L), MW-23B (880 mg/L) and compliance wells CW-2A (320 mg/L) and CW-3A (580 mg/L). The chloride detections will be addressed in the next Technical Report per 62-701.510(8)(b), F.A.C.

4.2.5 40 CFR Part 258, Appendix I Volatile Compounds (Method 8260)

4.2.5.1 Benzene

Benzene was detected above the PDWS of 1.0 µg/L in nine (9) A-zone monitoring wells, with concentrations ranging from 1.5 to 9.9 µg/L and the highest concentration being from MW-9A. Benzene was also detected in intermediate well MW-10B at a concentration of 7.6 µg/L. Benzene has been reported above the GCTL in most of these wells during previous monitoring events at similar concentrations.

Due to an error by the analytical laboratory, samples collected from the following wells were analyzed for volatile organic compounds outside the permitted sample hold time for EPA Method 8260B: MW-10B (duplicate), MW-11A, MW-11B, CW-2A, and CW-3A. Samples from these wells exceeded their respective hold times by a maximum of approximately five-hours.

The source of benzene in groundwater is likely attributed to landfill gas ([HDR Engineering, Inc., 2012; Geosyntec, 2013; Geosyntec, 2017]). As discussed in the reports mentioned above, neither the constituents nor the concentrations of volatile organic compounds (VOCs) detected in groundwater appear to correlate well with leachate results. If benzene detections in the groundwater were attributable to a leachate release, it would be reasonable to expect elevated concentrations of other landfill related parameters such as sodium or chloride wherever there is a benzene detection; however, this does not appear to be the case.

4.3 Data Validation

Laboratory analyses were performed within the method-specified hold times with the exception of select samples analyzed for VOCs by EPA Method 8260B (MW-10B duplicate, MW-11A, MW-11B, CW-2A, and CW-3A). Samples exceeding the method-specific hold time are indicated with a "Q" flag (**Table 3**). Two (2) duplicate samples were collected during the 30th semi-annual monitoring event. A duplicate sample was collected concurrently with the sample from monitoring well MW-13A (sample name: 19136-Dup-1) and MW-10B (sample name: 19137-Dup-2). Results of the duplicate samples are included in **Table 3**. A relative percent difference (RPD) calculation was performed between the original samples and the duplicate samples. The average RPD for both duplicate samples was below ten percent, which indicates a strong correlation.

Two (2) equipment blanks (19134-EQ-1 and 19137-EQ-2) were collected using a new length of HDPE tubing to pump lab supplied de-ionized water through the peristaltic pump and into sample containers. The equipment blank samples were analyzed for the same constituents as the groundwater samples. Total dissolved solids were detected at a concentration of 110 mg/L in sample 19134-EQ-1. Additional analytes were not detected at concentrations greater than the laboratory reporting limit.

4.4 Impact of Turbidity on Metals Concentrations

A turbidity of less than 20 NTUs was achieved in all monitoring wells during the May 2019 sampling event.

5. GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

5.1 Field Measurements

Groundwater level measurements were obtained between May 13 and May 14, 2019 from all Phase 1 through 4 monitoring wells and the remaining piezometers installed as part of the original site hydrogeological investigation. The groundwater level measurements were made within a 24-hr period. **Table 4** contains the groundwater level measurements and calculated groundwater elevations from the monitoring wells and piezometers.

5.2 Water Level Contours

The water level contour maps prepared from groundwater level measurements are presented in **Figure 2** for the surficial aquifer in the A-zone (shallow) wells, in **Figure 3** for the B-zone (intermediate) wells, and **Figure 4** for the C-zone (deep) wells. Overall, the groundwater elevation data collected from the A-zone and B-zone indicate a west to east flow toward Bull Creek on the eastern side of the Site. On the western side of the Site, flow appears to be toward the west with a stronger gradient noted on the southern side of the Site where active dewatering is occurring offsite to facilitate borrow pit operations. Groundwater elevation data from the C-zone indicates a similar groundwater flow direction in the A-zone and B-zone with the exception of west to east flow across the entire northern side of the Site. Generally, the groundwater flow direction in all three zones is relatively consistent with the data collected in November 2018.

6. SURFACE WATER SAMPLING

6.1 Sampling Locations and Procedures

Two (2) surface water sampling locations, SW-3 and SW-4 (**Figure 1**), established during the initial hydrogeological investigation were selected by the FDEP for routine water quality monitoring. As stated in the Permit, surface water samples are only to be collected when there is flow in Bull Creek. During the 30th semi-annual water quality monitoring event, flow was not observed in Bull Creek at either the upstream (SW-4) or downstream (SW-3) monitoring locations. Surface water samples were therefore not collected during the May 2019 sampling event.

7. CONCLUSIONS AND RECOMMENDATIONS

7.1 Sampling Locations

The existing monitoring well network is adequate for monitoring purposes, and no changes are recommended.

7.2 Sample Analyses

Our recommendation is to continue semi-annual monitoring of the constituents included in the current MPIS. The next Technical Report will address the water quality results per 62-701.510(8)(b), F.A.C.

8. REFERENCES

Geo-Services & Consulting, LLC, 2012, Initial Water Quality Report Monitoring Well Cluster MW-22R.

Geo-Services & Consulting, LLC, 2012, Water Quality Monitoring Installation Report (Cluster MW-22R).

Geosyntec Consultants, 2004, Baseline Groundwater Monitoring Report.

Geosyntec Consultants, 2008, Phases 2 and 3 Groundwater Monitoring Report.

Geosyntec Consultants, 2013, Groundwater Contamination and Landfill Gas Migration Investigation and Assessment.

Geosyntec Consultants, 2014, 5th Technical Report on Water Quality.

Geosyntec Consultants, 2015, Cell 11 Groundwater Monitoring Well Installation and Baseline Sampling Report.

Geosyntec Consultants, 2016, 24th Semi-Annual Water Quality Monitoring Report.

HDR Engineering, Inc., 2012, Class I Permit Renewal Request for Additional Information.

Kuball-Furr and Associates, 2002, Hydrogeologic Investigation Report and Water Quality Monitoring Plan.

Maddox, G.L. et. al, 1992, Florida's Ground Water Quality Monitoring Program: Background Hydrogeochemistry, Florida Geological Survey Special Publication No. 34, Tallahassee, Florida.

Weibu, LLC, 2013, Abandonment and Replacement Water Quality Monitoring Wells MW-20 and MW-16.

Weibu, LLC, 2014, Abandonment and Installation Water Quality Monitoring Wells MW-17R, 24, 25 and 26.

Weibu, LLC, 2016, Well Abandonment and Installation Baseline Water Quality Sampling.

Weibu, LLC, 2019, Well Completion and Initial Water Quality Monitoring Results for MW-30 A&B Cell 12.

TABLES

Table 1 (1 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1A	28 03 48.55	81 05 59.88	19900	9-Dec-03	95.12	23.0	13.0	23.0	82.1	72.1	10.6	8.2
MW-2A	28 03 51.99	81 05 59.90	19903	10-Dec-03	95.21	22.6	12.6	22.6	82.6	72.6	10.3	8.9
MW-3A	28 03 55.34	81 05 59.91	19906	11-Dec-03	94.64	22.8	12.8	22.8	81.9	71.9	10.4	9.0
MW-4A	28 03 58.97	81 05 59.92	19909	12-Dec-03	95.48	23.1	13.1	23.1	82.4	72.4	10.8	9.4
MW-5A	28 04 02.92	81 05 59.95	19912	24-Nov-03	95.32	22.5	12.5	22.5	82.8	72.8	10.1	9.1
MW-6A	28 04 06.50	81 05 59.15	19915	25-Nov-03	94.72	22.6	12.6	22.6	82.2	72.2	10.6	8.6
MW-7A	28 04 07.13	81 05 54.78	19918	26-Nov-03	95.48	23.3	13.3	23.3	82.2	72.2	10.3	9.3
MW-8A	28 04 06.20	81 05 50.64	19921	5-Dec-03	94.67	22.5	12.5	22.5	82.2	72.2	10.2	8.6
MW-9A	28 04 04.34	81 05 46.60	19924	4-Dec-03	94.66	22.4	12.4	22.4	82.3	72.3	10.0	8.6
MW-10A	28 04 00.07	81 05 44.77	19927	3-Dec-03	96.25	22.1	12.1	22.1	84.1	74.1	9.8	7.6
MW-11A	28 03 55.43	81 05 43.27	19930	3-Dec-03	93.56	22.8	12.8	22.8	80.7	70.7	10.5	9.1
MW-12A	28 03 52.08	81 05 43.26	19933	2-Dec-03	95.10	23.0	13.0	23.0	82.1	72.1	10.7	9.3
MW-13A	28 03 48.67	81 05 43.25	19936	8-Dec-03	95.19	22.5	12.5	22.5	82.7	72.7	10.2	7.7
MW-14A	Monitoring Well Abandoned July 10, 2007											
MW-15A	Monitoring Well Abandoned July 10, 2007											
MW-16A	Monitoring Well Abandoned June 24, 2013											
MW-16AR	28 03 44.56	81 05 40.18	22342	15-Oct-13	95.01	23.9	13.5	23.5	81.5	71.5	9.0	8.0
MW-17A	Monitoring Well Abandoned March 5, 2014											
MW-17AR	28 03 42.3	81 05 35.2	22345	19-Jun-14	94.84	24.1	12.0	24.0	82.8	70.8	11.0	10.0
MW-18A	Monitoring Well Abandoned March 5, 2014											
MW-19A	Monitoring Well Abandoned March 5, 2014											
MW-20A	Monitoring Well Abandoned June 24, 2013											
MW-21A	Monitoring Well Abandoned March 5, 2014											
MW-22A	Monitoring Well Abandoned November 11, 2011											
MW-22AR	28 03 34.703	81 06 0.622	28685	14-Mar-12	95.00	23.7	13.0	23.0	82.0	72.0	10.5	9.5
MW-23A	28 03 42.41	81 05 59.79	22363	25-Sep-07	97.90	27.8	17.3	27.3	80.7	70.7	15.3	14.3
MW-24A	28 03 26.9	82 05 25.9	29170	18-Jun-14	87.06	23.5	13	23	74.1	64.1	12.0	11.0
MW-25A	28 03 26.6	82 05 42.6	29173	19-Jun-14	86.99	23.4	13	23	74.0	64.0	12	11
MW-26A	Monitoring Well Abandoned June 15, 2016											
MW-27A	28 03 32.956	81 05 26.032	29179	30-Jul-15	94.68	23.6	13	23	81.68	71.7	11	9
MW-28A	28 03 36.209	81 05 26.696	29186	30-Jul-15	94.77	24.0	14	24	80.77	70.77	11	9
MW-29A	28 03 39.981	81 05 30.307	29189	30-Jul-15	94.88	23.7	13	23	81.88	71.88	11	9
MW-30A	28 03 27.9	81 05 59.8	29192	30-Mar-19	95.11	20.5	10	20	85.11	75.11	10	8
MW-31A	28 03 28.260	81 05 25.013	29195	15-Jun-16	94.15	25.0	15	25	79.15	69.15	11.4	10.4
CW-1A	28 03 55.76	81 06 00.93	29157	14-Nov-13	84.53	18.5	8	18	76.53	66.53	6	4
CW-2A	28 04 00.51	81 05 43.63	29158	14-Nov-13	82.81	18.5	8	18	74.81	64.81	6	4
CW-3A	28 03 56.07	81 05 41.93	29159	14-Nov-13	81.89	18.4	8	18	73.89	63.89	6	4

Table 1 (2 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1B	28 03 48.59	81 05 59.89	19901	9-Dec-03	95.00	47.9	37.9	47.9	57.1	47.1	35.6	33.1
MW-2B	28 03 51.94	81 05 59.90	19904	10-Dec-03	95.17	48.3	38.3	48.3	56.9	46.9	36.0	34.6
MW-3B	28 03 55.31	81 05 59.91	19907	11-Dec-03	94.68	47.6	37.6	47.6	57.1	47.1	35.3	33.9
MW-4B	28 03 59.01	81 05 59.92	19910	12-Dec-03	95.18	47.4	37.4	47.4	57.8	47.8	35.1	33.5
MW-5B	28 04 02.88	81 05 59.95	19913	24-Nov-03	95.30	47.1	37.1	47.1	58.2	48.2	34.4	32.7
MW-6B	28 04 06.48	81 05 59.18	19916	25-Nov-03	94.60	47.4	37.4	47.4	57.2	47.2	34.9	33.5
MW-7B	28 04 07.13	81 05 54.81	19919	26-Nov-03	95.27	47.5	37.5	47.5	57.8	47.8	34.5	33.5
MW-8B	28 04 06.19	81 05 50.60	19922	5-Dec-03	94.58	49.6	39.6	49.6	55.0	45.0	37.1	35.6
MW-9B	28 04 04.31	81 05 46.56	19925	4-Dec-03	94.63	49.1	39.1	49.1	55.5	45.5	36.8	35.3
MW-10B	28 04 00.04	81 05 44.75	19928	3-Dec-03	96.23	48.3	38.3	48.3	58.0	48.0	35.9	33.9
MW-11B	28 03 55.40	81 05 43.27	19931	2-Dec-03	93.59	47.9	37.9	47.9	55.7	45.7	35.5	34.0
MW-12B	28 03 52.05	81 05 43.27	19934	1-Dec-03	95.01	49.0	39.0	49.0	56.1	46.1	36.6	35.1
MW-13B	28 03 48.64	81 05 43.24	19937	8-Dec-03	95.12	47.2	37.2	47.2	58.0	48.0	34.8	33.4
MW-14B	Monitoring Well Abandoned July 10, 2007											
MW-15B	Monitoring Well Abandoned July 10, 2007											
MW-16B	Monitoring Well Abandoned June 24, 2013											
MW-16BR	28 03 44.54	81 05 40.14	22343	15-Oct-13	94.97	46.6	36.5	46.5	58.5	48.5	33.0	31.0
MW-17B	Monitoring Well Abandoned March 5, 2014											
MW-17BR	28 03 42.2	82 05 35.2	22346	19-Jun-14	94.78	48.5	38.0	48.0	56.8	46.8	37.0	36.0
MW-18B	Monitoring Well Abandoned March 5, 2014											
MW-19B	Monitoring Well Abandoned March 5, 2014											
MW-20B	Monitoring Well Abandoned June 24, 2013											
MW-21B	Monitoring Well Abandoned March 5, 2014											
MW-22B	Monitoring Well Abandoned November 11, 2011											
MW-22BR	28 03 34.665	81 05 59.850	28686	15-Mar-12	94.86	46.1	35.5	45.5	59.4	49.4	33.0	28.0
MW-23B	28 03 42.46	81 05 59.79	22364	25-Sep-07	97.91	42.8	32.3	42.3	65.7	55.7	30.3	29.3
MW-24B	28 03 26.5	82 05 58.5	29171	18-Jun-14	87.05	43.1	33	43	54.1	44.1	32.0	31.0
MW-25B	28 03 26.6	82 05 42.7	29174	19-Jun-14	86.67	41.5	31	41	55.7	45.7	30.0	29.0
MW-26B	Monitoring Well Abandoned June 15, 2016											
MW-27B	28 03 33.0	81 05 26.032	29180	30-Jul-15	94.66	46.8	36	46	58.66	48.66	34	32
MW-28B	28 03 36.252	81 05 26.696	29187	30-Jul-15	94.68	48.7	38	48	56.68	46.68	36	34
MW-29B	28 03 39.998	81 05 30.307	29190	30-Jul-15	94.67	48.8	38	48	56.67	46.67	36	34
MW-30B	28 03 27.8	81 05 59.8	29193	30-Mar-19	95.01	44.5	34	44	61.01	51.01	33	31
MW-31B	28 03 28.304	81 05 25.029	29196	15-Jun-16	93.88	46.3	36	46	57.88	47.88	35	34

Table 1 (3 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1C	28 03 48.63	81 05 59.88	19902	9-Dec-03	95.18	75.2	65.2	75.2	30.0	20.0	62.9	61.4
MW-2C	28 03 51.90	81 05 59.89	19905	10-Dec-03	95.32	68.4	58.4	68.4	36.9	26.9	56.1	53.7
MW-3C	28 03 55.28	81 05 59.91	19908	11-Dec-03	94.66	68.7	58.7	68.7	36.0	26.0	56.3	54.8
MW-4C	28 03 59.04	81 05 59.92	19911	12-Dec-03	95.39	72.5	62.5	72.5	32.9	22.9	61.2	59.6
MW-5C	28 04 02.83	81 05 59.95	19914	24-Nov-03	95.39	73.0	63.0	73.0	32.4	22.4	60.7	58.7
MW-6C	28 04 06.46	81 05 59.22	19917	25-Nov-03	94.58	73.2	63.2	73.2	31.4	21.4	60.2	57.7
MW-7C	28 04 07.13	81 05 54.86	19920	25-Nov-03	94.93	73.3	63.3	73.3	31.6	21.6	60.3	59.3
MW-8C	28 04 06.17	81 05 50.55	19923	5-Dec-03	94.50	73.9	63.9	73.9	30.6	20.6	61.6	59.8
MW-9C	28 04 04.29	81 05 46.53	19926	4-Dec-03	94.54	73.8	63.8	73.8	30.8	20.8	61.4	59.4
MW-10C	28 04 00.01	81 05 44.74	19929	3-Dec-03	96.36	73.7	63.7	73.7	32.7	22.7	61.4	60.0
MW-11C	28 03 55.36	81 05 43.26	19932	2-Dec-03	93.65	73.4	63.4	73.4	30.3	20.3	61.0	59.6
MW-12C	28 03 52.01	81 05 43.26	19935	1-Dec-03	95.10	73.6	63.6	73.6	31.5	21.5	60.2	58.7
MW-13C	28 03 48.60	81 05 43.25	19938	8-Dec-03	95.04	73.0	63.0	73.0	32.1	22.1	60.7	58.2
MW-14C	Monitoring Well Abandoned July 10, 2007											
MW-15C	Monitoring Well Abandoned July 10, 2007											
MW-16C	Monitoring Well Abandoned June 24, 2013											
MW-16CR	28 03 44.52	81 05 40.11	22344	16-Oct-13	95.03	75.3	65.0	75.0	30.0	20.0	60.0	59.0
MW-17C	Monitoring Well Abandoned March 5, 2014											
MW-18C	Monitoring Well Abandoned March 5, 2014											
MW-19C	Monitoring Well Abandoned March 5, 2014											
MW-20C	Monitoring Well Abandoned June 24, 2013											
MW-21C	Monitoring Well Abandoned March 5, 2014											
MW-22C	Monitoring Well Abandoned November 11, 2011											
MW-22CR	28 03 34.629	81 05 59.854	28687	15-Mar-12	95.13	66.6	56.0	66.0	39.1	29.1	50.0	49.0
MW-23C	28 03 42.51	81 05 59.80	22365	24-Sep-07	97.93	67.1	56.6	66.6	41.4	31.4	54.6	53.6

Notes:

NAD 1983 = North American Datum 1983
BTOC = Below Top of Casing

Table 2

SUMMARY OF WATER QUALITY FIELD PARAMETERS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Monitoring Well	Temperature (°C)	pH (Standard Units)	Specific Conductance (uS/cm)	Turbidity (NTUs)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Purging Method
MW-1A	24.39	4.58	1,731	2.03	-77.9	0.27	Peristaltic Pump
MW-1B	25.00	4.00	2,047	0.16	-32.9	0.23	Peristaltic Pump
MW-2A	23.74	4.31	939	0.62	-24.1	0.15	Peristaltic Pump
MW-2B	24.46	3.92	1,447	0.19	-55.7	0.12	Peristaltic Pump
MW-3A	24.66	5.25	1,578	2.56	-107.4	0.18	Peristaltic Pump
MW-3B	25.35	4.06	1,786	0.24	-13.6	0.25	Peristaltic Pump
MW-4A	24.79	4.65	1,539	1.91	-119.6	0.14	Peristaltic Pump
MW-4B	25.72	4.90	1,762	0.75	-58.5	0.15	Peristaltic Pump
MW-5A	24.73	5.03	182	6.21	-111.4	0.18	Peristaltic Pump
MW-5B	25.10	3.98	1,913	0.54	4.2	0.88	Peristaltic Pump
MW-6A	25.08	4.88	264	0.75	-50.0	0.15	Peristaltic Pump
MW-6B	25.99	4.13	135	0.25	-0.3	0.21	Peristaltic Pump
MW-7A	23.53	4.99	351	0.25	-88.5	0.77	Peristaltic Pump
MW-7B	24.18	4.07	636	1.19	-37.4	1.19	Peristaltic Pump
MW-8A	23.92	4.22	1,401	0.60	-59.8	0.31	Peristaltic Pump
MW-8B	24.63	4.06	1,269	1.25	-25.0	0.36	Peristaltic Pump
MW-9A	26.48	5.18	216	8.25	-110.8	0.23	Peristaltic Pump
MW-9B	26.46	4.14	641	0.35	27.5	0.27	Peristaltic Pump
MW-10A	24.66	4.80	873	1.16	-13.8	0.25	Peristaltic Pump
MW-10B	25.50	3.93	1,025	0.28	52.4	0.16	Peristaltic Pump
MW-11A	27.19	5.21	479	9.83	106.1	2.04	Peristaltic Pump
MW-11B	27.08	4.62	113	2.36	2.2	0.23	Peristaltic Pump
MW-12A	25.17	4.04	818	0.31	83.9	0.58	Peristaltic Pump
MW-12B	25.89	4.57	78	1.58	127.9	0.18	Peristaltic Pump
MW-13A	26.74	4.88	2,864	1.79	7.5	0.14	Peristaltic Pump
MW-13B	27.17	4.49	106	2.87	19.9	0.20	Peristaltic Pump
MW-16AR	26.47	5.38	1,735	4.11	-75.1	0.02	Peristaltic Pump
MW-16BR	26.30	4.93	128	1.91	54.5	2.59	Peristaltic Pump
MW-17AR	26.75	4.19	1,010	3.11	225.4	0.11	Peristaltic Pump
MW-17BR	26.60	4.85	112	1.87	53.4	0.11	Peristaltic Pump
MW-22AR	27.11	4.32	800	0.36	21.3	0.36	Peristaltic Pump
MW-22BR	27.90	4.47	88	1.86	27.0	1.86	Peristaltic Pump
MW-23A	26.00	5.37	1,833	1.33	-13.2	0.35	Peristaltic Pump
MW-23B	26.08	4.07	2,540	0.24	99.9	0.17	Peristaltic Pump
MW-24A	24.45	4.23	184	0.25	-15.7	0.12	Peristaltic Pump
MW-24B	24.64	4.23	61	3.29	10.5	0.20	Peristaltic Pump
MW-25A	23.87	4.72	1,123	3.28	-47.1	0.11	Peristaltic Pump
MW-25B	23.88	4.78	134	1.34	-32.1	0.11	Peristaltic Pump
MW-27A	24.08	4.72	177	2.74	-1.2	0.20	Peristaltic Pump
MW-27B	24.30	4.93	153	0.68	-20.1	0.22	Peristaltic Pump
MW-28A	24.78	4.86	575	3.15	-63.5	0.06	Peristaltic Pump
MW-28B	24.93	4.62	172	0.72	-23.2	0.36	Peristaltic Pump
MW-29A	24.89	4.20	247	6.17	182.3	0.41	Peristaltic Pump
MW-29B	25.60	4.52	201	0.87	-22.5	0.12	Peristaltic Pump
MW-30A	24.59	4.51	220	1.02	72.2	0.19	Peristaltic Pump
MW-30B	24.88	4.76	66	4.43	24.4	0.09	Peristaltic Pump
MW-31A	25.90	4.95	1,120	8.63	-69.8	0.07	Peristaltic Pump
MW-31B	25.47	4.59	1,202	1.32	-79.6	0.22	Peristaltic Pump
CW-1A	22.08	4.91	585	2.27	-4.0	0.10	Peristaltic Pump
CW-2A	22.87	5.05	1,863	3.16	-62.4	0.37	Peristaltic Pump
CW-3A	22.69	5.16	2,420	4.21	-84.3	0.72	Peristaltic Pump

Notes:

°C = degrees Celsius
uS/cm = micro Siemens per centimeter
NA = data not available
NTU = Nephelometric Turbidity Units
mV = millivolts
mg/L = milligram per liter

Table 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well ID	Acetone		Benzene		cis-1,2- Dichloroethylene		1,4- Dichlorobenzene		Xylenes (total)		Antimony		Arsenic		Barium		Beryllium		Cadmium		Chromium		Copper		Cobalt		Iron	
	GCTL (ug/L)		PDWS (ug/L)		PDWS (ug/L)		GCTL (ug/L)		GCTL (ug/L)		PDWS (ug/L)		GCTL (ug/L)		PDWS (ug/L)		PDWS (ug/L)		PDWS (ug/L)		PDWS (ug/L)		SDWS (ug/L)		PDWS (ug/L)		SDWS (ug/L)	
	6,300		**1**		**70**		**75**		**20**		**6**		**10**		**2,000**		**4**		**5**		**100**		**1000**		**140**		**300**	
MW-1A	8.3		2.4		0.24	U	0.22	U	0.53	U	0.14	I	9.0	U	40		0.50	U	1	U	3.1	I	4	U	2	U	5,800	
MW-1B	5.7		0.16	U	0.24	U	0.22	U	0.53	U	0.13	I	9.0	U	72		0.5	I	1	U	2.0	U	4	U	7.8	I	24,000	
MW-2A	3.9	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	64		0.50	U	1	U	2.0	I	4	U	2	U	13,000	
MW-2B	4.1	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	49		1.2	I	1	U	2.0	U	4	U	9.1		24,000	
MW-3A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	64		0.50	U	1	U	2.0	U	4	U	2	U	5,700	
MW-3B	3.6	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	36		1.8	I	1	U	2.0	U	4	U	2	U	1200	
MW-4A	2.2	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	55		0.50	U	1	U	2.0	U	4	U	2.00	U	4,600	
MW-4B	3.1	I	0.16	U	0.24	U	0.22	U	0.53	U	0.2	I	9.0	U	40		0.50	U	1	U	3.2	I	4	U	2	U	100	
MW-5A	4.2	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	2.9	I	0.50	U	1	U	2.5	I	4	U	2	U	170	I
MW-5B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.18	I	9.0	U	50		0.50	U	1	U	2.0	U	4	U	2	U	100	
MW-6A	2.1	U	3		0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	3.9	I	0.50	U	1	U	2.0	I	4	U	2	U	16,000	
MW-6B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	47		0.50	U	1	U	2.0	U	4	U	2	U	1,300	
MW-7A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	19		0.50	U	1	U	2.0	U	4	U	2	U	20,000	
MW-7B	2.5	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	32		0.8	I	1	U	2.0	U	4	U	3.5	I	22,000	
MW-8A	2.2	I	1.5		0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	27		0.50	U	1	U	2.7	I	4	U	2	U	2,800	
MW-8B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	42		0.7	I	1	U	2.0	U	4	U	8.5		46,000	
MW-9A	8.4		9.9		0.24	U	1.5		1	I	0.11	U	9.0	U	6.5		0.50	U	1	U	2.4	I	4	U	2	U	490	
MW-9B	4.4	I	0.42	I	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	47		0.70	I	1	U	2.0	U	4	U	2.3	I	9,000	
MW-10A	2.1	U	4.3		0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	63		0.50	U	1	U	2.0	U	4	U	2	U	17,000	
MW-10B	2.1	U	7.6		0.24	U	0.22	U	1.2	I	0.11	U	9.0	U	38		2		1	U	2.0	U	4	U	7	I	12,000	
MW-10B Duplicate (Dup-2	2.1	U,Q	7.2	Q	0.24	J,Q	0.22	J,Q	1.2	I,Q	0.11	U	9.0	U	38		2.1		1	U	2.0	U	4	U	6.7	I	12,000	
MW-11A	2.1	U,Q	1.8	Q	0.24	J,Q	0.22	J,Q	0.53	J,Q	0.14	I	9.0	U	22		0.50	U	1	U	3.2	I	4	U	2	U	8,100	
MW-11B	2.1	U,Q	0.16	J,Q	0.24	J,Q	0.22	J,Q	0.53	J,Q	0.11	U	9.0	U	17		0.50	U	1	U	2.0	U	4	U	2	U	360	I
MW-12A	3.5	I	5	J4	0.24	J,J	0.22	U	0.53	J,J	0.11	U	9.0	U	110		0.50	U	1	U	2.0	U	4	U	3	I	6,900	
MW-12B	3.1	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	18		0.50	U	1	U	2.0	U	4	U	2	U	550	
MW-13A	3.4	I	7.3		0.63	I	0.22	U	1.2	I	0.11	U	9.0	U	290		0.50	U	1	U	2.0	U	4	U	2	U	26,000	
MW-13A Duplicate (Dup-1	2.1	U	7.2		0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	270		0.50	U	1	U	2.0	U	4	U	2	U	22,000	
MW-13B	5.7		0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	13		0.50	U	1	U	2.0	U	4	U	2	U	1,100	
MW-16AR	4.9	I	1.6		0.24	U	0.22	U	0.53	U	0.27	I	9.0	U	51		0.50	U	1	U	3.1	I	4	U	2	U	890	
MW-16BR	2.5	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	31		0.50	U	1	U	2.0	U	4	U	2	U	1,800	
MW-17AR	5.2		0.16	U	0.24	U	0.22	U	0.53	U	0.35	I	9.0	U	65		0.50	U	1.7	I	2.0	U	4	U	2	U	640	
MW-17BR	6.1		0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	18		0.50	U	1	U	2.0	U	4	U	2	U	430	
MW-22AR	2.9	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	55		0.50	U	1	U	2.2	I	4	U	2.3	I	13,000	
MW-22BR	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	14		0.50	U	1	U	2.0	U	4	U	2	U	1,500	
MW-23A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.24	I	9.0	U	32		0.50	U	1	U	4.1	I	4	U	2	U	890	
MW-23B	3.1	I	0.29	I	0.24	U	0.22	U	0.53	U	0.33	I	9.0	U	150		0.7	I	1	U	2.3	I	4	U	3.4	I	3,100	
MW-24A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.18	I	9.0	U	27		0.50	U	1	U	2.0	U	4	U	2	U	680	
MW-24B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	10		0.50	U	1	U	2.0	U	4	U	2	U	480	
MW-25A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	77		1.4	I	1	U	2.0	U	4	U	3.2	I	19,000	
MW-25B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	29		0.50	U	1	U	2.0	U	4	U	2	U	950	
MW-27A	5.3		0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	12		0.50	U	1	U	3.6	I	4	U	2	U	1,100	
MW-27B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	18		0.50	U	1	U	2.0	U	4	U	2	U	390	
MW-28A	4.3	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	35		0.50	U	1	U	2.0	U	4	U	2	U	2,100	
MW-28B	4.3	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	40		0.50	U	1	U	2.0	U	4.7	I	2	U	1,200	
MW-29A	3.8	I	0.16	U	0.24	U	0.22	U	0.53	U	0.28	I	9.0	U	34		0.50	U	1	U	2.0	U	4	U	2	U	2,000	
MW-29B	3.5	I	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	71		0.50	U	1	U	2.0	U	4	U	2	U	2,000	
MW-30A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.39	I	9.0	U	44		0.50	U	1	U	2.0	U	4	U	2	U	740	
MW-30B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	12		0.50	U	1	U	2.0	U	4	U	2.0	U	1,600	
MW-31A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	77		4.00		1.6	I	3.3	I	4	U	24		96,000	
MW-31B	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.11	U	9.0	U	120		1.50	I	1	U	2.0	U	4	U	19.0		56,000	
CW-1A	2.1	U	0.16	U	0.24	U	0.22	U	0.53	U	0.21	I	160		69		0.50	U	1	U	10.0		4	U	2.4	I	8,500	
CW-2A	2.1	U,Q	0.16	J,Q	0.24	J,Q	0.22	J,Q	0.53	J,Q	0.18	I	9.0	U	70		0.50	U	1.0	U	4.5	I	4	U	2.0	U	180	
CW-3A	7.7	Q	0.16	J,Q	0.24	J,Q	0.22	J,Q	0.53	J,Q	0.26	I	9.0	U	51		1	I	1	U	14		4	U	2	U	4,900	

NOTES:

Reported value exceeds the applicable GCTL, PDWS, or SDWS

U indicates the sample was analyzed but not detected above the laboratory method detection limit (MDL).

I indicates reported value is between the laboratory MDL and the laboratory practical quantitation limit.

Q indicates a missed hold time.

Sample names including "resample" were resampled in January 2019 in accordance with 62-701.510(6)(a) Florida Administrative Code

J4 indicates an estimated result

NS indicates well not sampled

GCTL indicates Groundwater Cleanup Target Level

PDWS indicates Primary Drinking Water Standard

SDWS indicates Secondary Drinking Water Standard

Table 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well ID	Sodium	Thallium	Vanadium	Ammonia	Chloride	TDS
	PDWS (mg/L)	PDWS (ug/L)	GCTL (ug/L)	GCTL (mg/L)	SDWS (mg/L)	SDWS (mg/L)
	160	**2**	**49**	**2.8**	**250**	**500**
MW-1A	250	0.057 U	15 V	12.0	550	980
MW-1B	250	0.10 I	17 V	8.2	730	1,300
MW-2A	73	0.057 U	9 V	9.4	200	530
MW-2B	140	0.061 I	16 V	5.4	330	900
MW-3A	26	0.057 U	7.5 V	9.3	30	180
MW-3B	94	0.077 I	13 V	4.6	160	1,300
MW-4A	39	0.057 U	5.4 V	8.6	63	700
MW-4B	92	0.057 U	22 V	13	160	1,300
MW-5A	11	0.057 U	3.5 I,V	2.8	16	230
MW-5B	86	0.057 U	8.5 V	11.0	140	1,600
MW-6A	22	0.057 U	4.9 V	5.0	54	180
MW-6B	12	0.057 U	2.7 I,V	0.21	38	85
MW-7A	18	0.057 U	1.9 I,V	13	76	140
MW-7B	19	0.082 I	4.4 V	2.6	39	460
MW-8A	4.6	0.057 U	8.2 V	1.7	5.9 I	1,200
MW-8B	33	0.097 I	6.4 V	1.3	11	1,100
MW-9A	22	0.057 U	6.9 V	3.7	19	210
MW-9B	38	0.082 I	6.7 V	1.2	110	400
MW-10A	26	0.057 U	3.2 I,V	22	24	640
MW-10B	17	0.067 I	4.7 V	8.7	18	920
MW-10B	17	0.066 I	4.9 V	9.6	18	950
MW-11A	14	0.057 U	6.8 V	4.1	18	380
MW-11B	16	0.057 U	2.3 I,V	0.04	29	82
MW-12A	100	0.057 U	8.4 V	3.4	16	390
MW-12B	7.8	0.057 U	3.6 I,V	0.05	17	61
MW-13A	350	0.057 U	13 V	9.2	1200	1,600
MW-13A Duplicate	380	0.057 U	10 V	9.2	1200	1,700
MW-13B	12	0.057 U	2.8 I,V	0.11	29	76
MW-16AR	210	0.057 U	18 V	4.8	460	1,100
MW-16BR	8.1	0.057 U	1.6 I,V	0.29	28	73
MW-17AR	75	0.069 I	7.7 V	2.3	170	680
MW-17BR	15	0.057 U	3.0 I,V	0.24	18	82
MW-22AR	14	0.057 U	6.1 V	9.8	29	540
MW-22BR	7.6	0.057 U	1.1 I,V	0.37	19	64
MW-23A	250	0.057 U	12	16.0 J4	680	1,100
MW-23B	340	0.089 I	16	19	880	1,300
MW-24A	20	0.057 U	3.8 I,V	0.06	300	100
MW-24B	6.2	0.057 U	2.1 I,V	0.08	35	66
MW-25A	61	0.057 U	5.4	15.0	150	740
MW-25B	13	0.057 U	1.0 U	0.25	33	96
MW-27A	15	0.057 U	12 V	5.5	34	120
MW-27B	24	0.057 U	3.7 I,V	0.08	44	420
MW-28A	43	0.057 U	4.7 V	6.3	180	130
MW-28B	17	0.057 U	3.5 I,V	0.22	48	1,400
MW-29A	14	0.082 I	14 V	0.12	22	150
MW-29B	17	0.057 U	3.5 I,V	0.14	27	1,400
MW-30A	27	0.057 U	1 U	0.36	45	130
MW-30B	6.6	0.057 U	1.2 I	0.07	18	940
MW-31A	25	0.057 U	1 U	16.0	32	1,000
MW-31B	32	0.057 U	0.001 U	1.30	29	10 U
CW-1A	27	0.057 U	5.4	1.7	58	380
CW-2A	180	0.057 U	23 V	18	320	1,300
CW-3A	310	0.057 U	33 V	14	580	1,600

NOTES:

Reported value exceeds the applicable GCTL, PDWS, or SDWS

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I indicates reported value is between the laboratory MDL and the laboratory practical quantitation limit.

Q indicates a missed hold time.

Sample names including "resample" were resampled in January 2019 in accordance with 62-701.510(6)(a) Florida Administrative Code

J4 indicates an estimated result

NS indicates well not sampled

GCTL indicates Groundwater Cleanup Target Level

PDWS indicates Primary Drinking Water Standard

SDWS indicates Secondary Drinking Water Standard

Table 4

(1 of 4)

GROUNDWATER LEVEL MEASUREMENTS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility
Location: Osceola County, Florida
Date: May 13, 2019
Sampling Personnel: Neil Stapley, Daniel Montiel
Field Conditions: Sunny morning, cloudy afternoon

Well ID	Time	TOC Elevation[(1)]	Depth to Water (ft)	Well Depth (ft)[(2)]	GW Elevation	Field Observations
DP-1	Piezometer Abandoned October 3, 2003					
DP-2	Piezometer Abandoned October 3, 2003					
DP-3	Piezometer Abandoned January 16, 2006					
DP-4	Piezometer Abandoned January 16, 2006					
DP-5	Piezometer Abandoned July 10, 2007					
DP-6	Piezometer Abandoned July 10, 2007					
DP-7	Piezometer Abandoned July 10, 2007					
DP-8	Piezometer Abandoned July 10, 2007					
DP-9	Piezometer Abandoned July 10, 2007					
DP-10	Piezometer Abandoned July 10, 2007					
DP-11	Piezometer Abandoned July 10, 2007					
DP-12	Piezometer Abandoned July 10, 2007					
DP-13	Piezometer Abandoned July 11, 2007					
DP-14	Piezometer Abandoned March 2, 2015					
DP-15	Piezometer Abandoned March 2, 2015					
DP-16	Piezometer Abandoned December 30, 2015					
DP-17	Piezometer Abandoned December 30, 2015					
DP-18	13:20	84.38	10.34	52.87	74.04	
DP-19	13:21	84.34	10.38	18.20	73.96	
DP-20	6:49	83.07	5.62	18.35	77.45	
DP-21	6:49	83.00	5.76	53.68	77.24	
DP-22	6:58	81.00	3.90	18.63	77.10	
DP-23	6:59	81.27	4.27	53.73	77.00	
DP-24	Piezometer Abandoned December 30, 2015					
SZ-1	Piezometer Abandoned July 10, 2007					
SZ-2	6:48	83.16	7.45	75.39	75.71	
SZ-3	6:58	81.27	6.09	78.85	75.18	
MW-1A	12:56	95.12	17.42	23.15	77.70	
MW-1B	12:55	95.00	17.31	48.07	77.69	
MW-1C	12:55	95.18	17.55	74.58	77.63	
MW-2A	12:52	95.21	17.38	22.84	77.83	
MW-2B	12:51	95.17	17.33	48.26	77.84	
MW-2C	12:50	95.32	17.54	68.57	77.78	
MW-3A	12:48	94.64	16.52	22.97	78.12	
MW-3B	12:47	94.68	16.51	47.88	78.17	
MW-3C	12:46	94.66	16.55	68.95	78.11	

Table 4

(2 of 4)

GROUNDWATER LEVEL MEASUREMENTS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility **Sampling Personnel:** Neil Stapley, Daniel Montiel
Location: Osceola County, Florida **Field Conditions:**
Date: May 13, 2019

Well ID	Time	TOC Elevation[1]	Depth to Water (ft)	Well Depth (ft)[2]	GW Elevation	Field Observations
MW-4A	12:40	95.48	17.12	23.28	78.36	
MW-4B	12:41	95.18	16.84	47.67	78.34	
MW-4C	12:41	95.39	16.22	72.70	79.17	
MW-5A	12:37	95.32	17.40	22.69	77.92	
MW-5B	12:36	95.30	17.47	47.32	77.83	
MW-5C	12:35	95.39	17.98	73.25	77.41	
MW-6A	12:32	94.72	18.11	22.60	76.61	
MW-6B	12:31	94.60	17.99	47.71	76.61	
MW-6C	12:30	94.58	18.11	73.25	76.47	
MW-7A	12:25	95.48	19.06	23.53	76.42	
MW-7B	12:26	95.27	18.85	48.14	76.42	
MW-7C	12:27	94.93	18.60	73.49	76.33	
MW-8A	12:20	94.67	18.34	22.71	76.33	
MW-8B	12:21	94.58	18.28	49.48	76.30	
MW-8C	12:22	94.50	18.37	73.95	76.13	
MW-9A	12:16	94.66	18.57	22.53	76.09	
MW-9B	12:17	94.63	18.56	49.30	76.07	
MW-9C	12:18	94.54	18.57	73.96	75.97	
MW-10A	12:11	96.25	19.92	22.37	76.33	
MW-10B	12:12	96.23	19.94	48.47	76.29	
MW-10C	12:13	96.36	20.20	73.76	76.16	
MW-11A	12:00	93.56	17.18	22.83	76.38	
MW-11B	11:57	93.59	17.46	48.03	76.13	
MW-11C	11:58	93.65	17.58	73.72	76.07	
MW-12A	11:53	95.10	18.64	23.20	76.46	
MW-12B	11:55	95.01	18.70	49.17	76.31	
MW-12C	11:56	95.10	18.85	73.75	76.25	
MW-13A	11:51	95.19	18.67	22.73	76.52	
MW-13B	11:50	95.12	18.63	47.43	76.49	
MW-13C	11:49	95.04	18.65	73.20	76.39	
MW-14A	Monitoring Well Abandoned July 10, 2007					
MW-14B	Monitoring Well Abandoned July 10, 2007					
MW-14C	Monitoring Well Abandoned July 10, 2007					
MW-15A	Monitoring Well Abandoned July 10, 2007					
MW-15B	Monitoring Well Abandoned July 10, 2007					
MW-15C	Monitoring Well Abandoned July 10, 2007					

Table 4

(3 of 4)

GROUNDWATER LEVEL MEASUREMENTS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility **Sampling Personnel:** Neil Stapley, Daniel Montiel
Location: Osceola County, Florida **Field Conditions:**
Date: May 13, 2019

Well ID	Time	TOC Elevation[1]	Depth to Water (ft)	Well Depth (ft)[2]	GW Elevation	Field Observations
MW-16A	Monitoring Well Abandoned June 24, 2013					
MW-16B	Monitoring Well Abandoned June 24, 2013					
MW-16C	Monitoring Well Abandoned June 24, 2013					
MW-16AR	11:46	95.01	18.48	23.95	76.53	
MW-16BR	11:44	94.97	18.44	46.55	76.53	
MW-16CR	11:43	95.03	18.57	75.25	76.46	
MW-17AR	NM	94.84	NM	24.03	NM	Wells inaccessible due to road conditions
MW-17BR	NM	94.78	NM	48.40	NM	Wells inaccessible due to road conditions
MW-17A	Monitoring Well Abandoned March 5, 2014					
MW-17B	Monitoring Well Abandoned March 5, 2014					
MW-17C	Monitoring Well Abandoned March 5, 2014					
MW-18A	Monitoring Well Abandoned March 5, 2014					
MW-18B	Monitoring Well Abandoned March 5, 2014					
MW-18C	Monitoring Well Abandoned March 5, 2014					
MW-19A	Monitoring Well Abandoned March 5, 2014					
MW-19B	Monitoring Well Abandoned March 5, 2014					
MW-19C	Monitoring Well Abandoned March 5, 2014					
MW-20A	Monitoring Well Abandoned June 24, 2013					
MW-20B	Monitoring Well Abandoned June 24, 2013					
MW-20C	Monitoring Well Abandoned June 24, 2013					
MW-21A	Monitoring Well Abandoned March 5, 2014					
MW-21B	Monitoring Well Abandoned March 5, 2014					
MW-21C	Monitoring Well Abandoned March 5, 2014					
MW-22A	Monitoring Well Abandoned November 11, 2011					
MW-22B	Monitoring Well Abandoned November 11, 2011					
MW-22C	Monitoring Well Abandoned November 11, 2011					
MW-22AR	13:07	95.00	21.27	23.59	73.73	
MW-22BR	13:07	94.86	21.13	46.06	73.73	
MW-22CR	13:08	95.13	21.42	66.50	73.71	
MW-23A	13:01	97.90	20.97	27.95	76.93	
MW-23B	13:00	97.91	20.95	42.98	76.96	
MW-23C	12:59	97.93	20.96	67.19	76.97	
MW-24A	13:17	87.06	13.53	23.41	73.53	
MW-24B	13:18	87.05	13.54	43.05	73.51	
MW-25A	13:27	86.99	10.60	23.36	76.39	
MW-25B	13:27	86.67	10.15	41.41	76.52	
MW-26A	Monitoring Well Abandoned June 15, 2016					
MW-26B	Monitoring Well Abandoned June 15, 2016					

Table 4

(4 of 4)

GROUNDWATER LEVEL MEASUREMENTS
30th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility
Location: Osceola County, Florida
Date: May 13, 2019
Sampling Personnel: Neil Stapley, Daniel Montiel
Field Conditions:

Well ID	Time	TOC Elevation[1]	Depth to Water (ft)	Well Depth (ft)[2]	GW Elevation	Field Observations
MW-24A Exp	6:40	86.97	8.91	24.14	78.06	
MW-25A Exp	7:09	82.36	4.55	24.71	77.81	
MW-26A Exp	7:03	82.01	4.67	24.03	--	
MW-27C Exp		81.66		58.37	--	Area inundated and inaccessible
MW-27A	14:31	94.68	18.85	23.54	75.83	
MW-27B	14:32	94.66	18.85	46.50	75.81	
MW-28A	14:28	94.77	18.39	23.84	76.38	
MW-28B	14:29	94.68	18.45	48.82	76.23	
MW-29A	14:13	94.88	18.13	23.65	76.75	
MW-29B	14:14	94.67	18.31	48.90	76.36	
MW-30A	13:14	96.19	22.81	20.50	73.38	
MW-30B	13:15	96.12	22.76	44.00	73.36	
MW-31A	14:36	94.15	18.19	25.02	75.96	
MW-31B	14:36	93.88	18.05	46.34	75.83	
CW-1A	12:44	84.53	6.36	18.46	78.17	
CW-2A	12:09	82.81	6.90	18.48	75.91	
CW-3A	12:04	81.89	6.07	18.42	75.82	

Notes: Well caps removed site wide and wells allowed to stabilize prior to measurements.
(1) Elevations represent feet in National Geodetic Vertical Datum of 1929
(2) Monitoring well total depths were measured following the November 2016 and June 2019 (MW-30A/B) water quality monitoring event
NM = Not Measured

FIGURES



Legend

- A Zone Monitoring Well Location
- B Zone Monitoring Well Location
- C Zone Monitoring Well Location
- A Zone Piezometer Location
- B Zone Piezometer Location
- C Zone Piezometer Location
- Compliance Monitoring Well
- Abandoned or Destroyed Monitoring Well Location
- Surface Water Sample Location
- Property Boundary

Note:
2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

800 400 0 800 Feet

Site Map

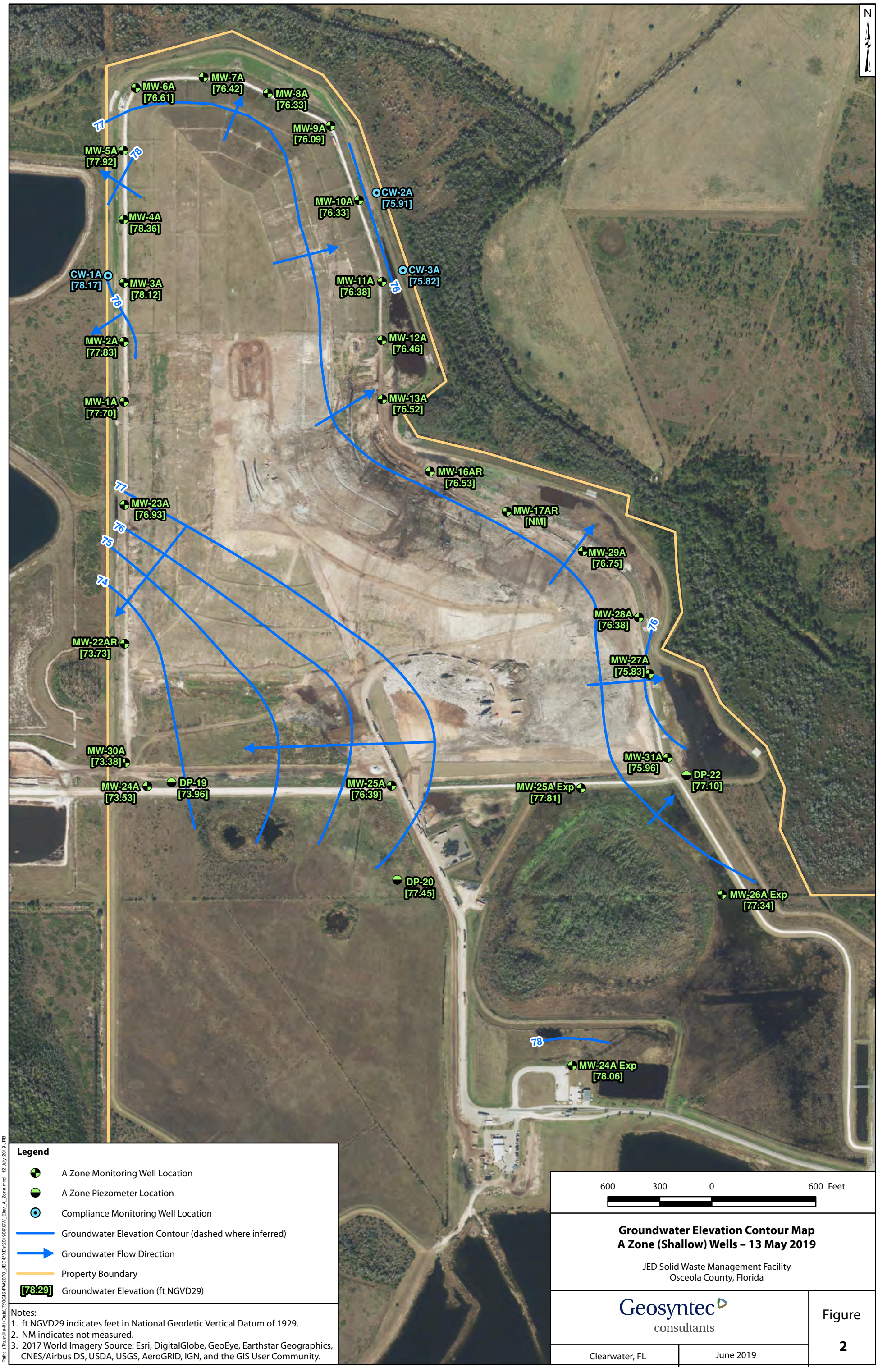
JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | June 2019

Figure 1

Path: I:\Tlusville-01\Data\T:\GIS\FW2070_JED\MXDs\20190115\Site_Map.mxd 25 June 2019 JRB


N
MW-6A [76.61]
MW-7A [76.42]
MW-8A [76.33]
MW-9A [76.09]
MW-5A [77.92]
MW-4A [78.36]
MW-10A [76.33]
CW-2A [75.91]
CW-1A [78.17]
MW-3A [78.12]
MW-11A [76.38]
CW-3A [75.82]
MW-2A [77.83]
MW-12A [76.46]
MW-1A [77.70]
MW-13A [76.52]
MW-16AR [76.53]
MW-23A [76.93]
MW-17AR [NM]
MW-29A [76.75]
MW-28A [76.38]
MW-22AR [73.73]
MW-27A [75.83]
MW-30A [73.38]
MW-31A [75.96]
DP-22 [77.10]
MW-24A [73.53]
DP-19 [73.96]
MW-25A [76.39]
MW-25A Exp [77.81]
DP-20 [77.45]
MW-26A Exp [77.34]
MW-24A Exp [78.06]
77
78
76
75
74
79
Legend
A Zone Monitoring Well Location
A Zone Piezometer Location
Compliance Monitoring Well Location
Groundwater Elevation Contour (dashed where inferred)
Groundwater Flow Direction
Property Boundary
[78.29] Groundwater Elevation (ft NGVD29)
Notes:
1. ft NGVD29 indicates feet in National Geodetic Vertical Datum of 1929.
2. NM indicates not measured.
3. 2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
600 300 0 600 Feet
Groundwater Elevation Contour Map
A Zone (Shallow) Wells – 13 May 2019
JED Solid Waste Management Facility
Osceola County, Florida
Geosyntec consultants
Clearwater, FL
June 2019
Figure
2
Path: (Titusville-01\Data\T:\GIS\FW2070_JED\MXDs\2019\06\GW_Elev_A_Zone.mxd 12 July 2019 JRB

N

MW-6B [76.61]
MW-7B [76.42]
MW-8B [76.30]
MW-9B [76.07]
MW-5B [77.83]
MW-10B [76.29]
MW-4B [78.34]
MW-3B [78.17]
MW-11B [76.13]
MW-2B [77.84]
MW-12B [76.31]
MW-1B [77.69]
MW-13B [76.49]
MW-16BR [76.53]
MW-23B [76.96]
MW-17BR [NM]
MW-29B [76.36]
MW-28B [76.23]
MW-22BR [73.73]
MW-27B [75.81]
MW-31B [75.83]
MW-30B [73.36]
DP-23 [77.00]
MW-24B [73.51]
DP-18 [74.04]
MW-25B [76.52]
DP-21 [77.24]

77
78
78
77
76
75
74
79
78

Legend

- B Zone Monitoring Well Location
- B Zone Piezometer Location
- Groundwater Elevation Contour
- Groundwater Flow Direction
- Property Boundary
- [78.25] Groundwater Elevation (ft NGVD29)

Notes:
1. ft NGVD29 indicates feet in National Geodetic Vertical Datum of 1929.
2. 2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

600 300 0 600 Feet

Groundwater Elevation Contour Map
B Zone (Intermediate) Wells – 13 May 2019

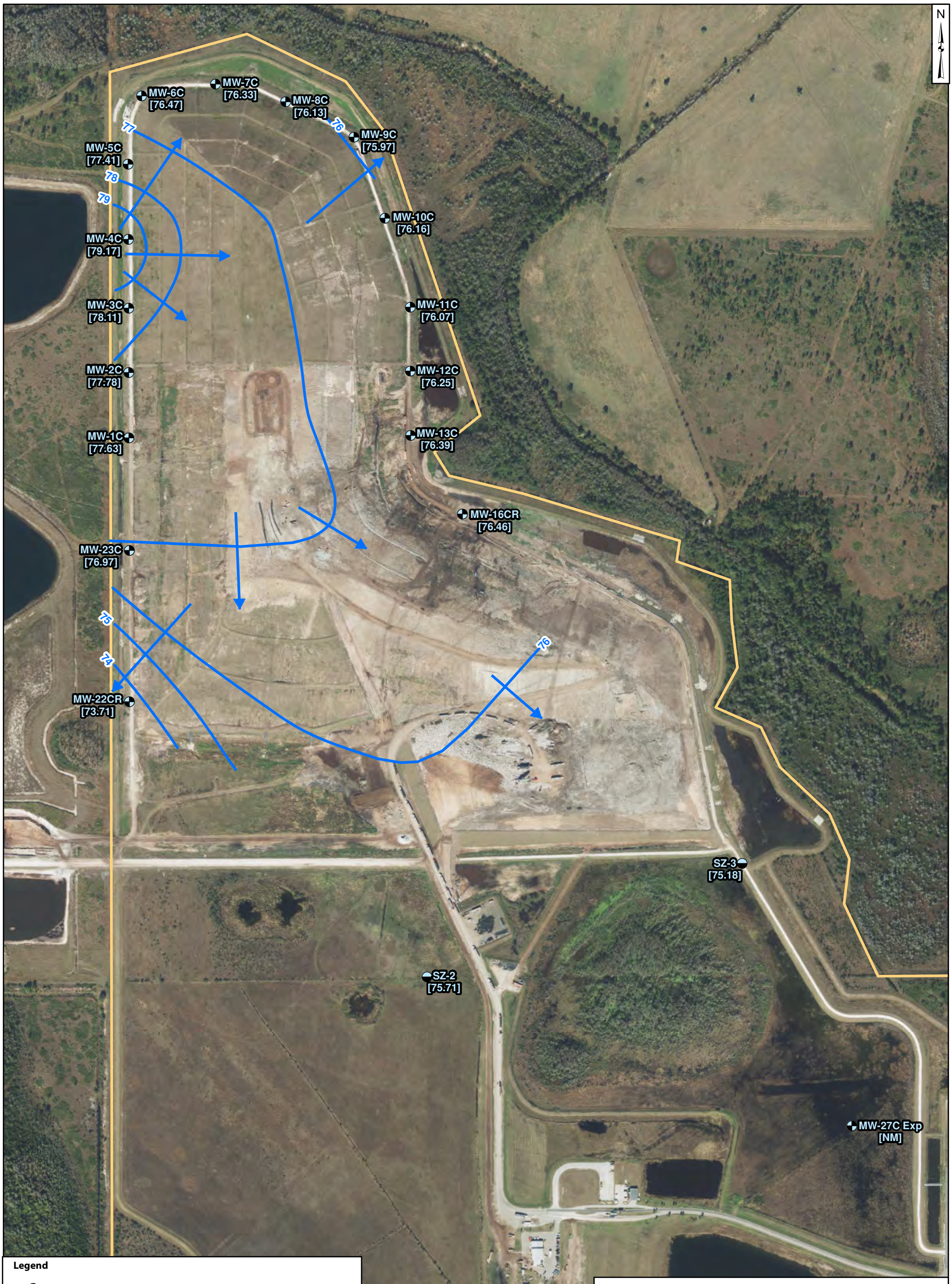
JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | June 2019

Figure 3

Path: (Titusville-01\Data\T:\GIS\FW2070_JED\MXDs\201906\GW_Elev_B_Zone.mxd 12 July 2019 JRB



Legend

- C Zone Monitoring Well Location
- C Zone Piezometer Location
- Groundwater Elevation Contour
- Groundwater Flow Direction
- Property Boundary
- [78.11] Groundwater Elevation (ft NGVD29)

Notes:
1. ft NGVD29 indicates feet in National Geodetic Vertical Datum of 1929.
2. NM indicates not measured.
3. * indicates not used for contouring purposes.
4. 2017 World Imagery Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Groundwater Elevation Contour Map
C Zone (Intermediate) Wells – 13 May 2019

JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec consultants

Clearwater, FL | June 2019

Figure **4**

Path: (Tallahassee-01\Data\T:\GIS\FW2070_JED\MXDs\20190619\GW_Elev_C_Zone.mxd 12 July 2019 JRB

APPENDIX A

Water Quality Monitoring Certification

FDEP Form 62-701.900(31)

Florida Department of Environmental Protection

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

DEP Form #: 62-701.900(31), F.A.C
Form Title: Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name J.E.D. SOLID WASTE MANAGEMENT FACILITY

Address 1501 OMNI WAY

City SAINT CLOUD Zip 34773 County OSCEOLA

Telephone Number (813) 388-1026

(2) WACS Facility ID 89544

(3) DEP Permit Number 0199726-033-SO-01

(4) Authorized Representative's Name KIRK WILLS Title Southern Region Engineer

Address 5135 MADISON AVENUE

City TAMPA Zip 33619 County HILLSBOROUGH

Telephone Number (813) 388-1026

Email address (if available) KIRK.WILLS@WASTECONNECTIONS.COM

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.

8/5/2019 (Date)

Kirk Wills (Owner or Authorized Representative's Signature)

Digitally signed by Kirk Wills
Date: 2019.08.05 21:00:33 -04'00'

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization GEOSYNTEC CONSULTANTS, INC.

Analytical Lab NELAC / HRS Certification # E82574

Lab Name ADVANCED ENVIRONMENTAL LABORATORIES, INC.

Address 6681 SOUTHPOINT PARKWAY

Phone Number (813) 388-1026

Email address (if available) cmyers@aellab.com

APPENDIX B
Monitoring Well Sampling Logs

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-1A	SAMPLE ID: 19135-MW-1A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 33 feet	STATIC DEPTH TO WATER (feet): 16.91	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)
= (33 feet – 16.91 feet) X 0.16 gallons/foot = 0.97 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): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30.5	PURGING INITIATED AT: 0714	PURGING ENDED AT: 0740	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
0728	1.20	1.20	0.085	17.67	4.63	24.36	1728	1.10	4.24	Sl. Yellow	-43.4
0732	0.34	1.54	0.085	17.68	4.60	24.38	1735	0.57	3.35	"	-56.3
0736	0.34	1.88	0.085	17.66	4.59	24.39	1735	0.31	2.66	"	-66.0
0740	0.34	2.22	0.085	17.66	4.58	24.39	1731	0.27	2.03	"	-77.9

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0740	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 30.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-1A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
	1	PE	250 mL	None	None	4.58	CL/NO3/TDS	APP	~300

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-1B	SAMPLE ID: 19135-MW-1A DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.9 feet to 47.9 feet	STATIC DEPTH TO WATER (feet): 16.78	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0750	PURGING ENDED AT: 0802	TOTAL VOLUME PURGED (gallons): 6.4

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)	ORP (mV)
0750	4.80	4.80	0.16	16.87	4.00	24.98	3066	0.39	0.44	clear	-30.6
0754	0.64	5.44	0.16	16.87	4.00	24.98	3054	0.37	0.36	"	-30.5
0758	0.48	5.92	0.12	16.85	4.00	24.99	3058	0.35	0.58	"	-30.9
0802	0.48	6.40	0.12	16.85	4.00	25.00	3047	0.33	0.16	"	-30.5

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: Nic / Stuby / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0802	SAMPLING ENDED AT: 0806

PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-1B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~455
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~455
✓	1	PE	250 mL	None	None	4.00	CL/NO3/TDS	APP	~455

REMARKS:
Odor: Rotten odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-2A	SAMPLE ID: 19135-MW-2B DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 17.6 feet to 32.6 feet	STATIC DEPTH TO WATER (feet): 16.78	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)
= (32.6 feet – 16.78 feet) X 0.06 gallons/foot = 0.93 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): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 0838	PURGING ENDED AT: 0852	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
0840	1.20	1.20	0.10	17.20	4.30	23.71	943	0.32	0.75	clear	-14.9
0844	0.40	1.60	0.10	17.21	4.30	23.70	938	0.35	0.63	"	-18.7
0848	0.40	2.00	0.10	17.20	4.31	23.74	935	0.18	0.75	"	-24.2
0852	0.40	2.40	0.10	17.18	4.31	23.74	939	0.15	0.62	"	-24.1

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0852	SAMPLING ENDED AT: 0857
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-2A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	4.31	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Slight reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-2B	SAMPLE ID: 19135-MW-2B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38.3 feet to 48.3 feet	STATIC DEPTH TO WATER (feet): 16.73	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47. feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43.5	PURGING INITIATED AT: 0832	PURGING ENDED AT: 0908	TOTAL VOLUME PURGED (gallons): 4.8

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)	ORP (mV)
0856	3.40	3.40	0.14	16.85	3.93	24.46	1458	0.11	0.42	clear	-53.2
0900	0.44	3.84	0.11	16.83	3.92	24.46	1456	0.11	0.61	"	-54.8
0904	0.44	4.28	0.11	16.83	3.92	24.47	1448	0.12	0.40	"	-55.0
0908	0.44	4.82	0.11	16.83	3.92	24.46	1447	0.12	0.19	"	-55.7

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0908	SAMPLING ENDED AT: 0913
PUMP OR TUBING DEPTH IN WELL (feet): 43.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-2B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	3.92	CL/NO3/TDS	APP	~415

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-3A	SAMPLE ID: 19135-MW-3A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.8 feet to 22.8 feet	STATIC DEPTH TO WATER (feet): 16.04	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)
= (22.8 feet – 16.04 feet) X 0.16 gallons/foot = 1.08 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): ~~20.5~~ 19.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0938	PURGING ENDED AT: 1018	TOTAL VOLUME PURGED (gallons): 3.4

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1006	2.40	2.40	0.085	17.11	5.18	24.69	1603	0.22	2.57	Clear	-113.6
1010	0.34	2.74	0.085	17.07	5.20	24.69	1591	0.19	2.08	"	-110.6
1014	0.34	3.08	0.085	17.06	5.20	24.70	1585	0.18	2.00	"	-112.4
1018	0.34	3.42	0.085	17.06	5.25	24.66	1578	0.18	1.56	"	-107.4

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; **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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1018	SAMPLING ENDED AT: 1034
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-3A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~ 150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~ 320
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~ 320
↓	1	PE	250 mL	None	None	5.25	CL/NO3/TDS	APP	~ 320

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-3B	SAMPLE ID: 19135-MW-3B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 376 feet to 426 feet	STATIC DEPTH TO WATER (feet): 16.10	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 45.5 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 0934	PURGING ENDED AT: 0956	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
0944	~~0+1.00~~	1.00	0.10	16.19	4.06	25.32	1780	1.53	0.52	clear	-5.3
0948	0.40	1.40	0.10	16.19	4.06	25.32	1786	0.65	0.38	"	-10.9
0952	0.40	1.80	0.10	16.19	4.06	25.32	1788	0.35	0.24	"	-13.5
0956	0.40	2.20	0.10	16.19	4.06	25.35	1786	0.25	0.24	"	-13.6

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0956	SAMPLING ENDED AT: 1001
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-3B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	4.06	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Slight reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-4A	SAMPLE ID: 19135-MW-4A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13.1 feet to 33.1 feet	STATIC DEPTH TO WATER (feet): 16.90	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)
= (33.1 feet – 16.90 feet) X 0.16 gallons/foot = 0.99 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): 30	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30	PURGING INITIATED AT: 1052	PURGING ENDED AT: 1136	TOTAL VOLUME PURGED (gallons): 5.4

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 (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1130	3.80	3.80	0.14	17.88	4.64	24.91	1600	0.29	1.45	sl. Yello	-94.8
1134	0.40	4.20	0.10	17.40	4.63	24.85	1596	0.26	2.03	"	-77.1
1138	0.40	4.60	0.10	17.40	4.66	24.68	1539	0.17	2.17	"	-114.3
1132	0.40	5.00	0.10	17.40	4.65	24.70	1536	0.15	2.14	"	-118.0
1136	0.40	5.40	0.10	17.39	4.65	24.79	1539	0.14	1.91	"	-119.6

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: Nic Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1141
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19135-MW-4A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
	1	PE	250 mL	None	None	4.65	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-4B	SAMPLE ID: 19135-MW-4B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.4 feet to 47.4 feet	STATIC DEPTH TO WATER (feet): 16.65	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X 3
(only fill out if applicable)
= — gallons + (0.0014 gallons/foot X 45.5 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1048 1052	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 2.0

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)	ORP (mV)
1058	0.90	0.90	0.09	17.03	5.07	25.56	1769	0.48	0.88	Sl. Yella	-74.9
1102	0.36	1.26	0.09	17.03	4.95	25.61	1764	0.21	0.76	"	-68.4
1106	0.36	1.62	0.09	17.03	4.94	25.70	1759	0.18	0.82	"	-66.4
1110	0.36	1.98	0.09	17.03	4.90	25.72	1762	0.15	0.75	"	-58.5

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: Nic Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1116
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-4B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~340
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~340
	1	PE	250 mL	None	None	4.90	CL/NO3/TDS	APP	~340

REMARKS: Water slightly foamy
Odor: Slight sulfur odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-5A	SAMPLE ID: 19135-MW-5A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 17.25	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)
= (22.5 feet – 17.25 feet) X 0.16 gallons/foot = 0.84 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): 20 ~~19.5~~	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1354	TOTAL VOLUME PURGED (gallons): 3.3

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)	ORP (mV)
1242	2.40	2.40	0.075	17.72	5.02	24.44	191	0.33	5.85	Yellow	-110.9
1246	0.30	2.70	0.075	17.72	5.03	24.61	183	0.20	6.10	"	-130.2
1250	0.30	3.00	0.075	17.72	5.03	24.75	181	0.18	6.41	"	-131.8
1254	0.30	3.30	0.075	17.71	5.03	24.73	182	0.18	6.31	"	-111.4

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; **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: Neil Stanley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1254	SAMPLING ENDED AT: 1301
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19135-MW-5A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~285
	1	PE (N)	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~285
↓	1	PE	250 mL	None	None	5.03	CL/NO3/TDS	APP	~285

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-5B	SAMPLE ID: 19135-MW-5B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.1 feet to 47.1 feet	STATIC DEPTH TO WATER (feet): 17.28	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 45 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1206	PURGING ENDED AT: 1232	TOTAL VOLUME PURGED (gallons): 1.8

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)	ORP (mV)
1216	1.00	1.00	0.10	17.46	4.02	25.02	1889	3.54	2.03	V.S.Y.Yellow	11.7
1220	0.40	1.40	0.10	17.46	4.00	25.06	1895	1.80	1.01	"	7.4
1224	0.40	1.40	0.10	17.46	3.98	25.06	1904	1.45	0.40	"	6.6
1228	0.40	1.40	0.10	17.46	3.98	25.07	1911	1.15	0.35	"	4.8
1232	0.40	1.80	0.10	17.46	3.98	25.10	1913	0.88	0.54	"	4.2

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: Nel Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1232	SAMPLING ENDED AT: 1237
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19135-MW-5B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	3.98	CL/NO3/TDS	APP	~380

REMARKS:
Odor: slight odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-6A	SAMPLE ID: [redacted] 19135-MW-6A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.6 feet to 22.6 feet	STATIC DEPTH TO WATER (feet): 17.58	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)
= (22.6 feet – 17.58 feet) X 0.16 gallons/foot = 0.76 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1326	PURGING ENDED AT: 1410	TOTAL VOLUME PURGED (gallons): 3.1

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)	ORP (mV)
1358	2.30	2.30	0.07	17.75	4.85	25.10	367	0.21	0.93	clear	-43.8
1403	0.28	2.58	0.07	17.75	4.86	25.08	367	0.19	0.88	"	-51.0
1406	0.28	2.86	0.07	17.74	4.87	25.07	366	0.17	0.81	"	-50.2
1410	0.28	3.14	0.07	17.74	4.88	25.08	364	0.15	0.75	"	-50.0

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1410	SAMPLING ENDED AT: 1417
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-6A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~265
↓	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~265
↓	1	PE	250 mL	None	None	4.88	CL/NO3/TDS	APP	~265

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-6B	SAMPLE ID: 19135-MW-6B	DATE: 5/15/16

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.4 feet to 47.4 feet	STATIC DEPTH TO WATER (feet): 17.44	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47.5 feet) + 0.1 gallons = 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 1324	PURGING ENDED AT: 1346	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
1334	1.10	1.10	0.11	17.83	4.07	26.08	138	0.67	0.37	clear	6.0
1338	0.44	1.54	0.11	17.81	4.10	26.12	135	0.31	0.33	"	5.5
1342	0.44	1.98	0.11	17.81	4.12	26.07	136	0.26	0.30	"	4.1
1346	0.44	2.42	0.11	17.80	4.13	25.99	135	0.21	0.25	"	-0.3

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: Nic Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1346	SAMPLING ENDED AT: 1351
PUMP OR TUBING DEPTH IN WELL (feet): 42.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-6B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~ 150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~ 415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~ 415
↓	1	PE	250 mL	None	None	4.13	CL/NO3/TDS	APP	~ 415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-7A	SAMPLE ID: 19136-MW-7A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.3 feet to 23.3 feet	STATIC DEPTH TO WATER (feet): 18.80	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)
= (23.3 feet – 18.80 feet) X 0.16 gallons/foot = 0.72 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 = ~~3~~ ~3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 0756	PURGING ENDED AT: 0832	TOTAL VOLUME PURGED (gallons): 3.9

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)	ORP (mV)
0820	2.60	2.60	0.11	18.75	4.99	23.51	356	0.86	0.34	clear	-90.2
0824	0.44	3.04	0.11	18.75	4.99	23.51	353	0.84	0.38	"	-87.2
0828	0.44	3.48	0.11	18.75	4.99	23.52	352	0.82	0.34	"	-89.1
0832	0.44	3.93	0.11	18.75	4.99	23.53	351	0.77	0.35	"	-88.5

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: Nat Stuple / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0832	SAMPLING ENDED AT: 0837
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-7A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	4.99	CL/NO3/TDS	APP	~415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-7B	SAMPLE ID: 19136-MW-7B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.5 feet to 47.5 feet	STATIC DEPTH TO WATER (feet): 18.38	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47.5 feet) + 0.1 gallons = 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42.5	PURGING INITIATED AT: 0752	PURGING ENDED AT: 0814	TOTAL VOLUME PURGED (gallons): 1.8

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)	ORP (mV)
0802	0.80	0.80	0.08	18.74	4.14	23.99	631	1.94	3.84	Clear	-44.0
0806	0.32	1.12	0.08	18.76	4.10	24.10	633	1.38	3.34	"	-40.2
0810	0.32	1.44	0.08	18.76	4.08	24.15	633	1.06	2.72	"	-36.0
0814	0.32	1.76	0.08	18.76	4.07	24.18	636	0.91	1.19	"	-37.4

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; **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: Nic Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0814	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-7B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
	1	PE	250 mL	None	None	4.07	CL/NO3/TDS	APP	~300

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-8A	SAMPLE ID: 19136-MW-8A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 17.89	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)
= (22.5 feet − 17.89 feet) X 0.16 gallons/foot = 0.74 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): 20.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0944	TOTAL VOLUME PURGED (gallons): 4.7

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)	ORP (mV)
0932	3.40	3.40	0.11	19.53	4.22	23.79	1400	0.36	1.47	clear	-61.9
0936	0.44	3.84	0.11	19.53	4.23	23.81	1402	0.33	0.75	V.S.Y.tint	-65.6
0940	0.44	4.28	0.11	19.53	4.23	23.83	1401	0.33	0.78	"	-71.1
0944	0.44	4.72	0.11	19.52	4.22	23.92	1401	0.31	0.60	"	-59.8

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0944	SAMPLING ENDED AT: 0949
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-8A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
	1	PE	250 mL	None	None	4.22	CL/NO3/TDS	APP	~415

REMARKS:
Odor: Slight reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-8B	SAMPLE ID: 19136-MW-8B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 39.6 feet to 49.6 feet	STATIC DEPTH TO WATER (feet): 17.83	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 47.5 feet) + 0.1 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44.5	PURGING INITIATED AT: 0900	PURGING ENDED AT: 0932	TOTAL VOLUME PURGED (gallons): 3.4

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)	ORP (mV)
0910	1.10	1.10	0.11	18.73	4.08	24.55	1356	0.77	2.44	clear	-38.2
0914	0.44	1.54	0.11	18.74	4.05	24.59	1359	0.43	1.94	"	-37.9
0918	0.44	1.98	0.11	18.74	4.06	24.58	1363	0.40	1.93	"	-34.2
0922	0.44	2.42	0.11	18.73	4.06	24.63	1369	0.36	1.35	"	-25.0

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0932	SAMPLING ENDED AT: 0937
PUMP OR TUBING DEPTH IN WELL (feet): 44.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-8B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	4.06	CL/NO3/TDS	APP	~415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-9A	SAMPLE ID: 19136-MW-9A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.4 feet to 22.4 feet	STATIC DEPTH TO WATER (feet): 18.11	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)
= (22.4 feet – 18.11 feet) X 0.16 gallons/foot = 0.69 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.5	PURGING INITIATED AT: 1018	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 3.4

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)	ORP (mV)
1048	2.40	2.40	0.08	18.78	5.18	26.51	215	0.38	8.61	Yellow	407.3
1052	0.32	2.72	0.08	18.78	5.18	26.56	214	0.25	9.03	"	-111.1
1056	0.32	3.04	0.08	18.78	5.17	26.55	214	0.24	8.21	"	-93.0
1100	0.32	3.36	0.08	18.78	5.18	26.48	216	0.23	8.25	"	-110.8

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: Neil Stuber / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1106
PUMP OR TUBING DEPTH IN WELL (feet): 20.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-9A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
↓	1	PE	250 mL	None	None	5.18	CL/NO3/TDS	APP	~300

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-9B	SAMPLE ID: 19136-MW-9B
DATE: 5/16/19	

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 39.1 feet to 49.1 feet	STATIC DEPTH TO WATER (feet): 18.10	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= — gallons + (0.0014 gallons/foot X 47 feet) + 0.1 gallons = 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1016	PURGING ENDED AT: 1038	TOTAL VOLUME PURGED (gallons): 2.1

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)	ORP (mV)
1036	1.0	1.0	0.10	18.64	4.16	26.54	646	1.11	0.52	clear	33.3
1030	0.4	1.4	0.10	18.65	4.14	26.46	643	0.45	0.36	"	31.2
1034	0.4	1.8	0.10	18.65	4.15	26.44	643	0.33	0.33	"	28.4
1038	0.4	2.2	0.10	18.64	4.14	26.46	641	0.27	0.35	"	27.5

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1038	SAMPLING ENDED AT: 1043
PUMP OR TUBING DEPTH IN WELL (feet): 44	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-9B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
	1	PE	250 mL	None	None	4.14	CL/NO3/TDS	APP	~380

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-10A	SAMPLE ID: 19157-MW-10A	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12.1 feet to 22.1 feet	STATIC DEPTH TO WATER (feet): 19.61	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)
= (22.1 feet − 19.61 feet) X 0.16 gallons/foot = 0.40 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): 20.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.2	PURGING INITIATED AT: 1009	PURGING ENDED AT: 1058	TOTAL VOLUME PURGED (gallons): 3.43

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)	ORP (mV)
1054	3.15	3.15	0.07	20.41	4.81	24.80	874	0.22	1.50	Clear	9.8
1056	0.14	3.29	0.07	20.36	4.80	24.68	874	0.30	1.56	Clear	-5.4
1058	0.14	3.43	0.07	20.36	4.80	24.66	873	0.25	1.16	Clear	-13.8

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: Brian Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1110
PUMP OR TUBING DEPTH IN WELL (feet): 21.2	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
	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)
19157	MW-10A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	292
19157	MW-10A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	292
19157	MW-10A	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	292
19157	MW-10A	1	PE	250 mL	None	None	4.80	CL/NO3/TDS	APP	292

REMARKS:
Odor: Odor present

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-10B	SAMPLE ID: 19157-MW-10B	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38.3 feet to 48.3 feet	STATIC DEPTH TO WATER (feet): 19.61	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1007	PURGING ENDED AT: 1026	TOTAL VOLUME PURGED (gallons): 1.33

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1016	0.63	0.63	0.07	19.77	4.06	25.38	874	0.14	0.81	Clear	85.3
1018	0.14	0.77	0.07	19.77	4.01	25.43	928	0.12	0.33	Clear	75.9
1020	0.14	0.91	0.07	19.77	3.99	25.40	973	0.11	0.33	Clear	69.4
1022	0.14	1.05	0.07	19.77	3.96	25.44	997	0.09	0.27	Clear	63.5
1024	0.14	1.19	0.07	19.77	3.93	25.49	1017	0.14	0.21	Clear	56.7
1026	0.14	1.33	0.07	19.77	3.93	25.50	1025	0.16	0.28	Clear	52.4

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; **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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT: 1047
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19157-MW-10B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	300
19157-MW-10B	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	300
19157-MW-10B	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	300
19157-MW-10B	1	PE	250 mL	None	None	3.93	CL/NO3/TDS	APP	300

REMARKS: DUP-2 taken at 0001
Odor: odor present

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-11A	SAMPLE ID: 19157-MW-11A	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)
= (22.8 feet – 16.87 feet) X 0.16 gallons/foot = 0.95 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): 19.8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21.5	PURGING INITIATED AT: 0817	PURGING ENDED AT: 0859	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0859	0.99	0.99	0.01	19.72	5.21	27.19	479	2.04	9.83	Clear	106.1

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: 0925
PUMP OR TUBING DEPTH IN WELL (feet): 21.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19157-MW-11A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	75
19157-MW-11A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	75
19157-MW-11A	1	PE	500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	75
19157-MW-11A	1	PE	500 mL	None	None	5.21	CL/NO3/TDS	APP	75

REMARKS: well purged dry at 0833 @ 0.06 gpm. Gave time to recharge and purged again at 0858 at <100mL/min.
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-11B	SAMPLE ID: 19157-MW-11B	DATE: 5-17-19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 37.9 feet to 47.9 feet	STATIC DEPTH TO WATER (feet): 17.10	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0824	PURGING ENDED AT: 0833	TOTAL VOLUME PURGED (gallons): 1.14

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)	ORP (mV)
0829	0.90	0.90	0.06	17.33	4.60	27.03	115	0.36	184	Clear	11.3
0831	0.12	1.02	0.06	17.33	4.62	27.07	114	0.28	2.29	Clear	4.7
0833	0.12	1.14	0.06	17.33	4.62	27.08	113	0.23	2.36	Clear	2.2

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0835	SAMPLING ENDED AT: 0845
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19157-MW-11B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	260
19157-MW-11B	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	260
19157-MW-11B	1	PE	500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	260
19157-MW-11B	1	PE	500 mL	None	None	4.62	CL/NO3/TDS	APP	260

REMARKS:
Odor: ✓ Moderate Odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, Florida 34733	
WELL NO: MW-12A	SAMPLE ID: 19156-MW-12A	DATE: 5-16-19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 18.25	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)
= (23 feet – 18.25 feet) X 0.16 gallons/foot = 0.76 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): 20.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.9	PURGING INITIATED AT: 1321	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 2.04

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)	ORP (mV)
1349	1.68	1.68	0.06	18.78	4.04	25.52	818	0.91	0.27	Clear	92.4
1351	0.12	1.80	0.06	18.78	4.04	25.34	818	0.55	0.36	Clear	87.1
1353	0.12	1.92	0.06	18.78	4.04	25.21	818	0.48	0.36	Clear	85.8
1355	0.12	2.04	0.06	18.78	4.04	25.17	818	0.58	0.31	Clear	83.9

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: Brian Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1402
PUMP OR TUBING DEPTH IN WELL (feet): 20.9	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
	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)
19156	MW-12A	3	CG	40mL	HCl / None	–	–	VOA/EDB	APP	226
19156	MW-12A	1	PE	500mL	HNO_3	–	–	Metals	APP	226
19156	MW-12A	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	226
19156	MW-12A	1	PE	500mL	None	–	–	Cl/NO_3/TDS	APP	226

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, Florida 34733
WELL NO: MW-12B	SAMPLE ID: 19156-MW-12B DATE: 5-16-19

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 39 feet to 49 feet	STATIC DEPTH TO WATER (feet): 18.34	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1319	PURGING ENDED AT: 1333	TOTAL VOLUME PURGED (gallons): 0.84

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)	ORP (mV)
1324	0.60	0.60	0.06	18.50	4.54	25.82	76	0.78	1.20	Clear	130.0
1331	0.12	0.72	0.06	18.50	4.58	25.84	77	0.22	1.66	Clear	127.7
1333	0.12	0.84	0.06	18.50	4.57	25.89	78	0.18	1.58	Clear	127.9

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: Brad Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1337	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 44	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
	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)
19156	MW-12B	3	CG	40mL	HCl / None	–	–	VOA / EDB	APP	232
19156	MW-12B	1	PE	500mL	HNO_3	–		Metals	APP	232
19156	MW-12B	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	232
19156	MW-12B	1	PE	500mL	None	–	–	Cl / NO_3 / TDS	APP	232

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-13A	SAMPLE ID: 19156-MW-13A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 18.35	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)
= (22.5 feet – 18.35 feet) X 0.16 gallons/foot = 0.664 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY (M) X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~0~~ gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~42~~ 20.4 (M)	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~~42~~ (M) 21.1	PURGING INITIATED AT: 1056	PURGING ENDED AT: 1153	TOTAL VOLUME PURGED (gallons): 2.28

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)	ORP (mV)
1147	2.04	2.04	0.04	19.77	4.88	26.86	2892	0.10	7.11	Clear	29.9
1149	0.08	2.12	0.04	19.67	4.88	26.83	2875	0.16	3.11	Clear	9.9
1151	0.08	2.20	0.04	19.71	4.88	26.65	2868	0.09	2.11	Clear	15.9
1153	0.08	2.28	0.04	19.68	4.88	26.79	2864	0.14	1.79	Clear	7.5

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: Boone Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1155	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet): ~~42~~ (M) 21.1	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19156-MW-13A	3	CG	40mL	HCl / None	–	–	VOA / EDB	APP	170
19156-MW-13A	1	PE	500mL	HNO_3	–	–	Metals	APP	170
19156-MW-13A	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	170
19156-MW-13A	1	PE	500mL	None	–	–	Cl / NO_3 / TDS	APP	170

REMARKS: Collected DUP-1. Sample time 0001 on bottle.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34773	
WELL NO: MW-13B	SAMPLE ID: 19156-MW-13B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.2 feet to 47.2 feet	STATIC DEPTH TO WATER (feet): 18.35	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)
= (feet – feet) X ~~0.16~~ (VA) gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1058	PURGING ENDED AT: 1226	TOTAL VOLUME PURGED (gallons): 5.28

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)	ORP (mV)
1222	5.04	5.04	0.06	18.44	4.49	27.27	108	0.20	2.76	Clear	13.1
1224	0.12	5.16	0.06	18.44	4.49	27.07	104	0.20	2.60	Clear	19.8
1226	0.12	5.28	0.06	18.44	4.49	27.17	106	0.20	2.87	Clear	19.9

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: Beau Abbott / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 42	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19156-MW-13B	3	CG	40mL	HCl	–	–	VOA/EDB	APP	240
19156-MW-13B	1	PE	500mL	HNO_3	–	–	Metals	APP	240
19156-MW-13B	1	PE	500mL	H_2SO_4	–	–	NH_3	APP	240
19156-MW-13B	1	PE	500mL	None	–	–	Cl/NO_3/TDS	APP	240

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-16AR	SAMPLE ID: 19135-MW-16AR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.5 feet to 23.5 feet	STATIC DEPTH TO WATER (feet): 17.98	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)
= (23.5 feet – 17.98 feet) X 0.16 gallons/foot = 0.88 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1336	PURGING ENDED AT: 1410	TOTAL VOLUME PURGED (gallons): 1.36

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)	ORP (mV)
1346	0.40	0.40	0.04	18.60	5.39	26.56	1727	0.03	4.73	clear	-51.4
1348	0.08	0.48	0.04	18.61	5.39	26.57	1728	0.03	5.29	↓	-52.3
1350	0.08	0.56	0.04	18.61	5.39	26.56	1731	0.02	5.38	↓	-59.1
1352	0.08	0.64	0.04	18.61	5.38	26.52	1734	0.03	4.71	↓	-66.2
1354	0.08	0.72	0.04	18.61	5.38	26.51	1735	0.02	3.92	↓	-67.2
1356	0.08	0.80	0.04	18.61	5.38	26.48	1736	0.02	4.34	↓	-69.0
1358	0.08	0.88	0.04	18.61	5.38	26.47	1734	0.03	4.47	↓	-70.3
1406	0.08	0.96	0.04	18.61	5.38	26.47	1735	0.02	4.11	↓	-75.1

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: Daniel Montel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1403	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW16AR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-16BR	SAMPLE ID: 19135-MW-16BR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 36.5 feet to 46.5 feet	STATIC DEPTH TO WATER (feet): 17.56	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.1 gallons = 0.17 → 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1347	PURGING ENDED AT: 1431	TOTAL VOLUME PURGED (gallons): 1.72

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)	ORP (mV)
1407	0.80	0.80	0.04	18.01	4.97	26.28	155	3.03	1.94	Clear	23.7
1409	0.08	0.88	0.04	18.01	4.94	26.33	137	2.69	1.87	↓	40.4
1411	0.08	0.96	0.04	18.01	4.94	26.32	132	2.64	1.32	↓	43.4
1413	0.08	1.04	0.04	18.01	4.93	26.31	129	2.60	1.45	↓	53.9
1415	0.08	1.12	0.04	18.01	4.93	26.30	128	2.59	1.91	↓	54.5

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: Daniel Montpetit/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1418	SAMPLING ENDED AT: 1431
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)			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			
19135-MW-16BR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-17AR	SAMPLE ID: 19135-MW-17AR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 18.07	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)
= (22 feet – 18.07 feet) X 0.16 gallons/foot = 0.63 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1207	PURGING ENDED AT: 1242	TOTAL VOLUME PURGED (gallons): 1.4

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1217	0.40	0.40	0.04	18.49	4.18	26.89	952	0.24	11.5	Clear	188.5
1222	0.20	0.60	0.04	18.49	4.18	26.79	968	0.14	8.74	↓	203.6
1225	0.12	0.72	0.04	18.49	4.19	26.80	995	0.11	7.31		214.0
1228	0.12	0.84	0.04	18.49	4.19	26.79	999	0.10	5.82		216.8
1231	0.12	0.96	0.04	18.49	4.19	26.78	1008	0.11	5.48		218.5
1234	0.12	1.08	0.04	18.49	4.19	26.75	1010	0.11	3.11		225.4

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; **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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1236	SAMPLING ENDED AT: 1242
PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-17AR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-17BR	SAMPLE ID: 19135-MW-17BR	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 17.95	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 → 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1252	PURGING ENDED AT: 1326	TOTAL VOLUME PURGED (gallons): 1.36

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)	ORP (mV)
1302	0.40	0.40	0.04	18.89	4.84	26.48	130	0.26	2.15	Clear	166.7
1307	0.20	0.60	0.04	18.90	4.85	26.55	118	0.27	2.17	↓	113.6
1309	0.08	0.68	0.04	18.90	4.86	26.54	113	0.19	2.31		68.0
1311	0.08	0.76	0.04	18.91	4.86	26.57	112	0.14	1.78		59.8
1313	0.08	0.84	0.04	18.91	4.85	26.59	113	0.12	1.92		54.6
1315	0.08	0.92	0.04	18.90	4.85	26.60	112	0.11	1.87		53.4

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; **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: Daniel Knapel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1318	SAMPLING ENDED AT: 1326
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-17BR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-22AR	SAMPLE ID: 1913C-MW-22AR
DATE: 5/16/19	

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13.0 feet to 33.0 feet	STATIC DEPTH TO WATER (feet): 21.17	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)
= (33 feet – 21.17 feet) X 0.16 gallons/foot = 0.29 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): 22.0 ~~NJ~~	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22.9	PURGING INITIATED AT: 1256	PURGING ENDED AT: 1332	TOTAL VOLUME PURGED (gallons): 3.22

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)	ORP (mV)
1320	2.20	2.20	0.085	22.80	4.28	17.10	788	0.46	0.61	V.SL. Yellow	25.5
1324	0.34	2.54	0.085	22.80	4.30	17.14	795	0.38	0.68	"	20.4
1328	0.34	2.88	0.085	22.80	4.31	17.09	798	0.39	0.47	"	22.2
1332	0.34	3.22	0.085	22.80	4.32	17.11	800	0.36	0.36	"	21.3

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: Neil Stuber / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1332	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 22.9	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
1913C-MW-22AR	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~ 150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~ 325
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~ 325
↓	1	PE	250 mL	None	None	4.32	CL/NO3/TDS	APP	~ 325

REMARKS:
Odor: Slight reducing odor.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**
WELL NO: MW-22BR	SAMPLE ID: 19136-MW-22BR
DATE: 5/16/19	

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 35.5 feet to 45.5 feet	STATIC DEPTH TO WATER (feet): 21.12	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)
= (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 + (0.0014 gallons/foot X 43.5 feet) + 0.1 gallons x3 = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 40.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 40.5	PURGING INITIATED AT: 1148	PURGING ENDED AT: 1210	TOTAL VOLUME PURGED (gallons): 2.4

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)	ORP (mV)
1158	1.20	1.20	0.12	21.21	4.64	27.86	83	1.24	3.30	clear	-27.1
1202	0.40	1.60	0.10	21.19	4.45	27.93	87	0.47	1.72	"	12.4
1206	0.40	2.00	0.10	21.19	4.46	27.84	89	0.31	2.58	"	20.5
1210	0.40	2.40	0.10	21.19	4.47	27.90	88	0.22	1.86	"	27.0

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT: 1315
PUMP OR TUBING DEPTH IN WELL (feet): 40.5	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~ 150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~ 380
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~ 380
	1	PE	250 mL	None	None	4.47	CL/NO3/TDS	APP	~ 380

REMARKS: Slight orange fouling in purge water
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-23A	SAMPLE ID: 19134 - MW-23A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 17.3 feet to 27.3 feet	STATIC DEPTH TO WATER (feet): 20.92	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)

= (27.3 feet – 20.92 feet) X 0.16 gallons/foot = 1.02 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): ~~25~~ 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 0905	PURGING ENDED AT: 0936	TOTAL VOLUME PURGED (gallons): 2.5

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)	ORP (mV)
0920	1.20	1.20	0.08	21.55	5.39	26.05	1331	1.38	1.20	Yellow	25.7
0924	0.32	1.52	0.08	21.56	5.38	26.04	1597	0.75	1.34	"	21.2
0928	0.32	1.84	0.08	21.57	5.38	26.04	1846	0.46	1.34	"	7.2
0932	0.32	2.16	0.08	21.58	5.38	26.01	1833	0.41	1.27	"	-5.6
0936	0.32	2.48	0.08	21.58	5.37	26.00	1833	0.35	1.33	"	-13.2

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: Neil Stuffy / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0936	SAMPLING ENDED AT: 0942
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
(19134-MW-23A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~300
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~300
↓	1	PE	250 mL	None	None	5.37	CL/NO3/TDS	APP	~300

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-33B	SAMPLE ID: 19134-MW-33B	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 33.3 feet to 43.3 feet	STATIC DEPTH TO WATER (feet): 20.89	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 40.5 feet) + 0.1 gallons = 0.47 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 37.5	PURGING INITIATED AT: 0910	PURGING ENDED AT: 1012	TOTAL VOLUME PURGED (gallons): 6.8

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)	ORP (mV)
1001	5.50	5.50	0.44 ↔ 0.11	20.94	4.08	26.12	2541	0.19	0.53	Slt Yellow	104.9
1004	0.44	5.94	0.11	20.94	4.08	26.10	2534	0.19	0.70	"	104.5
1008	0.44	6.38	0.11	20.94	4.07	26.09	2538	0.17	0.70	"	101.7
1012	0.44	6.82	0.11	20.94	4.07	26.08	2540	0.17	0.34	"	99.9

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: Mc'l Studay / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1012	SAMPLING ENDED AT: 1016
PUMP OR TUBING DEPTH IN WELL (feet): 37.5	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19134-MW-33B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
↓	1	PE	250 mL	None	None	4.07	CL/NO3/TDS	APP	~415

REMARKS:
Odor: Reducing odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-24A	SAMPLE ID: 19136 - MW-24A	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 13.49	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)
= (23 feet – 13.49 feet) X 0.16 gallons/foot = 1.52 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 22 feet) + 0.1 gallons = 0.39 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 1322	PURGING ENDED AT: 1408	TOTAL VOLUME PURGED (gallons): 5.7

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)	ORP (mV)
1356	4.50	4.50	0.13	13.58	4.21	24.36	184	0.14	0.43	Clear	-4.0
1400	0.40	4.90	0.10	13.54	4.23	24.39	180	0.15	0.24	"	-11.0
1404	0.40	5.30	0.10	13.54	4.23	24.45	183	0.14	0.26	"	-12.5
1408	0.40	5.70	0.10	13.54	4.23	24.45	184	0.12	0.25	"	-15.7

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1408	SAMPLING ENDED AT: 1413
PUMP OR TUBING DEPTH IN WELL (feet): 19	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-24A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~375
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~375
	1	PE	250 mL	None	None	4.23	CL/NO3/TDS	APP	~375

REMARKS:
Odor: Petroleum odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-34B	SAMPLE ID: 19136-MW-34B	DATE: 5/16/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 33 feet to 43 feet	STATIC DEPTH TO WATER (feet): 13.48	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)
= (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 + (0.0014 gallons/foot X 82 feet) + 0.1 gallons = 0.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1346	TOTAL VOLUME PURGED (gallons): 2.8

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)	ORP (mV)
1330	1.10	1.10	0.12	13.80	4.05	24.36	61	1.05	4.70	Clear	30.7
1334	0.40	1.60	0.10	13.72	4.13	24.45	61	0.52	4.10	"	18.5
1338	0.40	1.00	0.10	13.72	4.14	24.56	61	0.33	3.54	"	12.0
1342	0.40	2.40	0.10	13.72	4.23	24.57	60	0.25	3.33	"	13.5
1346	0.40	2.80	0.10	13.72	4.23	24.64	61	0.20	3.29	"	10.5

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: Nicl Stuckey / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1346	SAMPLING ENDED AT: 1351
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19136-MW-34B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~375
	1	PE	NS ~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~375
	1	PE	250 mL	None	None	4.23	CL/NO3/TDS	APP	~375

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-25A	SAMPLE ID: 19134-MW-25A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 10.04	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 24 feet) + 0.1 gallons = 0.13 → 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 1251	PURGING ENDED AT: 1322	TOTAL VOLUME PURGED (gallons): 1.26

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1301	0.60	0.60	0.06	10.07	4.81	23.67	1209	0.88	13.6	Clear	25.5
1305	0.24	0.84	0.06	10.07	4.74	23.77	1170	0.16	8.76	Clear	-7.3
1307	0.12	0.96	0.06	10.07	4.72	23.93	1130	0.15	4.04	Clear	-37.0
1309	0.12	1.08	0.06	10.07	4.72	23.94	1128	0.13	3.78	Clear	-39.1
1311	0.12	1.20	0.06	10.07	4.72	23.88	1121	0.11	3.54	Clear	-47.5
1312	0.06	1.26	0.06	10.07	4.72	23.87	1123	0.11	3.28	Clear	-47.1

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: Daniel Mantel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1313	SAMPLING ENDED AT: 1322
PUMP OR TUBING DEPTH IN WELL (feet): 18	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19134-MW-25A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	250
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	250
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	250

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-2SB	SAMPLE ID: 19134-MW-2SB	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 31 feet to 41 feet	STATIC DEPTH TO WATER (feet): 9.86	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 → 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1401	TOTAL VOLUME PURGED (gallons): 1.86

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1340	0.60	0.60	0.06	9.77	4.78	23.90	146	0.19	2.97	Clear	-16.9
1345	0.30	0.90	0.06	9.78	4.78	23.88	140	0.13	1.92	Clear	-25.1
1347	0.12	01.02	0.06	9.78	4.78	23.88	136	0.12	1.78	Clear	-30.7
1349	0.12	1.24	0.06	9.78	4.78	23.88	134	0.11	1.34	Clear	-32.1

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: Daniel Mantel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1401
PUMP OR TUBING DEPTH IN WELL (feet): 36	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19134-MW-2SB	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-27A	SAMPLE ID: 19135-MW-27A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet) 18.07	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)
= (23 feet – 18.07 feet) X 0.16 gallons/foot = 0.78 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 0714	PURGING ENDED AT: 0751	TOTAL VOLUME PURGED (gallons): 1.48

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 mS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0724	0.40	0.40	0.04	18.58	4.69	24.06	180	0.27	3.45	Clear	27.7
0727	0.17	0.52	0.04	18.59	4.71	24.09	176	0.24	3.28	↓	14.6
0730	0.12	0.64	0.04	18.59	4.72	24.08	175	0.22	2.98	↓	6.8
0733	0.12	0.76	0.04	18.59	4.72	24.08	176	0.20	2.76	↓	2.7
0736	0.12	0.88	0.04	18.59	4.72	24.08	177	0.20	2.74	↓	-1.2

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: Daniel Mantel / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0739	SAMPLING ENDED AT: 0751
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19135-MW-27A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-27B	SAMPLE ID: 19135-MW-27B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet): 18.11	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.16 → 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 0803	PURGING ENDED AT: 0840	TOTAL VOLUME PURGED (gallons): 1.48

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0813	0.40	0.40	0.04	18.37	4.93	24.26	158	0.66	1.06	Clear	10.4
0817	0.16	0.56	0.04	18.37	4.94	24.31	154	0.36	0.91	↓	1.3
0820	0.12	0.68	0.04	18.38	4.93	24.37	153	0.24	0.85		-12.3
0823	0.12	0.80	0.04	18.38	4.94	24.36	153	0.23	0.72		-18.7
0826	0.12	0.92	0.04	18.38	4.93	24.3	153	0.22	0.68	↓	-20.1

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: Daniel Mondel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0828	SAMPLING ENDED AT: 0840
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-27B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-28A	SAMPLE ID: 19135-MW-28A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 14 feet to 24 feet	STATIC DEPTH TO WATER (feet): 18.01	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)
= (24 feet – 18.01 feet) X 0.16 gallons/foot = 0.96 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 0843	PURGING ENDED AT: 0917	TOTAL VOLUME PURGED (gallons): 1.36

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)	ORP (mV)
0853	0.40	0.40	0.04	19.89	4.81	24.67	592	0.22	2.69	Clear	-11.2
0858	0.20	0.60	0.04	19.89	4.83	24.68	594	0.24	3.73	↓	-27.9
0903	0.20	0.80	0.04	19.89	4.84	24.75	579	0.10	3.21		-43.6
0908	0.20	1.00	0.04	19.89	4.85	24.72	579	0.06	3.40		-55.7
0913	0.20	1.20	0.04	19.89	4.86	24.78	575	0.06	3.15	↓	-63.5

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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 0917
PUMP OR TUBING DEPTH IN WELL (feet): 22	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-28A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-28B	SAMPLE ID: 19135 - MW-28B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 18.08	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 48 feet) + 0.1 gallons = 0.17 → 0.50 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0925	PURGING ENDED AT: 1000	TOTAL VOLUME PURGED (gallons): 1.40

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)	ORP (mV)
0935	0.40	0.40	0.04	18.56	4.64	24.93	175	0.76	0.74	Clear	-12.7
0938	0.12	0.52	0.04	18.56	4.63	24.91	175	0.44	0.71	↓	-20.5
0941	0.12	0.64	0.04	18.56	4.63	24.92	173	0.34	1.12		-26.2
0944	0.12	0.76	0.04	18.56	4.62	24.92	172	0.31	0.69		-25.3
0947	0.12	0.88	0.04	18.56	4.62	24.93	172	0.36	0.72	↓	-23.2

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: Daniel Ironside / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 0959
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-28B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-29A	SAMPLE ID: 19135-MW-29A	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 13 feet to 23 feet	STATIC DEPTH TO WATER (feet): 17.68	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)
= (23 feet – 17.68 feet) X 0.16 gallons/foot = 0.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1011	PURGING ENDED AT: 1052	TOTAL VOLUME PURGED (gallons): 1.64

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)	ORP (mV)
1021	0.40	0.40	0.04	18.13	4.19	24.97	247	0.50	25.4	light brown	145.7
1026	0.20	0.60	0.04	18.13	4.19	24.91	247	0.53	13.2	↓	150.4
1031	0.20	0.80	0.04	18.13	4.19	24.86	247	0.65	10.4	↓	162.3
1036	0.20	1.00	0.04	18.13	4.20	24.87	247	0.38	8.44	Clear	180.6
1038	0.08	1.08	0.04	18.13	4.20	24.89	247	0.41	6.17	Clear	182.3

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: Samuel Mumpfield/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19135-MW-29A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-29B	SAMPLE ID: 19135-MW-29B	DATE: 5/15/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 17.81	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 49 feet) + 0.1 gallons = 0.17 → 0.51 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1032	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons): 2.32

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)	ORP (mV)
1042	0.40	0.40	0.04	18.31	4.52	25.63	200	0.53	0.46	Clear	9.3
1047	0.20	0.60	0.04	18.33	4.52	25.62	201	0.19	1.76	↓	-4.1
1052	0.20	0.80	0.04	18.33	4.52	25.65	201	0.15	1.23		-8.2
1057	0.20	1.00	0.04	18.33	4.52	25.61	201	0.14	0.96		-12.3
1102	0.20	1.20	0.04	18.33	4.52	25.60	201	0.12	0.87		-22.5

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: Daniel Montiel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1108	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19135-MW-29B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-30A	SAMPLE ID: 19134 - MW-30A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 32.83	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)
= (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): 34	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34	PURGING INITIATED AT: 1044	PURGING ENDED AT: 1111	TOTAL VOLUME PURGED (gallons): 3.7

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 (mS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1059	1.50	1.50	0.10	33.93	4.34	34.67	343	0.51	1.31	clear	84.8
1103	2.40	1.90	0.10	33.93	4.43	34.63	331	0.33	3.37	"	81.3
1107	0.40	2.30	0.10	33.93	4.45	34.63	337	0.36	1.54	"	75.7
1111	0.40	2.70	0.10	33.93	4.51	34.59	330	0.19	1.02	"	72.1

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: Neal / Studay / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1111	SAMPLING ENDED AT: 1116
PUMP OR TUBING DEPTH IN WELL (feet): 34	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19134-MW-30A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
	1	PE	250 mL	None	None	4.51	CL/NO3/TDS	APP	~380

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: MW-30B	SAMPLE ID: 19134 - MW-30B	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.79	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 46 feet) + 0.1 gallons = 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1050	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1130	3.30	3.30	0.11	33.11	4.75	24.77	67	0.14	4.74	clear	32.8
1134	0.44	3.74	0.11	33.11	4.76	24.90	66	0.12	4.37	"	29.6
1138	0.44	4.18	0.11	33.11	4.77	24.98	67	0.10	4.19	"	24.7
1132	0.44	4.62	0.11	33.11	4.76	24.88	66	0.09	4.43	"	24.4

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; **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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1132	SAMPLING ENDED AT: 1137
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19134-MW-30B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~415
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~415
✓	1	PE	250 mL	None	None	4.76	CL/NO3/TDS	APP	~415

REMARKS:
Odor: None

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-31A	SAMPLE ID: 19134 - MW-31A	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 15 feet to 25 feet	STATIC DEPTH TO WATER (feet): 17.19	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)
= (25 feet – 17.19 feet) X 0.16 gallons/foot = 1.25 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): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1028	PURGING ENDED AT: 1148	TOTAL VOLUME PURGED (gallons): 4.8

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)	ORP (mV)
1038	0.60	0.60	0.06	17.29	5.28	26.00	1026	0.40	356	clear yellow	-81.3
1058	1.20	1.80	0.06	17.29	4.99	26.26	1123	0.22	164	clear yellow	-131.5
1108	0.60	2.40	0.06	17.30	5.01	25.91	1117	0.11	49.3	Clear	-60.0
1118	0.60	3.00	0.06	17.30	5.00	25.95	1124	0.09	16.7	↓	-62.8
1128	0.60	3.60	0.06	17.30	4.97	25.92	1123	0.09	8.63		-68.0
1130	0.12	3.72	0.06	17.30	4.98	25.90	1121	0.08			-67.3
1132	0.12	3.84	0.06	17.30	4.95	25.89	1120	0.08			-68.1
1134	0.12	3.96	0.06	17.30	4.95	25.90	1120	0.07		↓	-69.8

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: Daniel Manfredi / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1148
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19134-MW-31A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
↓	1	PE	250 mL	None	None		CL/NO3/TDS	APP	↓

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733	
WELL NO: MW-31B	SAMPLE ID: 19134-MW-31B	DATE: 5/14/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet):	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)
= (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)
= 0 gallons + (0.0014 gallons/foot X 45 feet) + 0.1 gallons = 0.16 → 0.49 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 1116	PURGING ENDED AT: 1214	TOTAL VOLUME PURGED (gallons): 3.48

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)	ORP (mV)
1126	0.60	0.60	0.06	17	4.64	25.49	1200	0.41	1.71	Clear	-48.0
1156	1.80	2.40	0.06		4.61	25.48	1202	0.26	2.35	Clear	-62.8
1158	0.12	2.52	0.06		4.60	25.47	1202	0.28	1.88	↓	-70.1
1200	0.12	2.64	0.06		4.59	25.46	1202	0.24	1.54		-81.3
1202	0.12	2.76	0.06		4.59	25.47	1202	0.22	1.32		-79.6

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: Daniel Mantel/Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1204	SAMPLING ENDED AT: 1214
PUMP OR TUBING DEPTH IN WELL (feet): 41	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19134-MW-31B	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	250
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	↓
	1	PE	250 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	
	1	PE	250 mL	None	None		CL/NO3/TDS	APP	

REMARKS:
Odor:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: JED Solid Waste Landfill	SITE LOCATION: 1501 Omni Way, St. Cloud, FL 34733
WELL NO: CW-BA 1A (NS)	SAMPLE ID: 19134-CW-1A
DATE: 5/14/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 5.70	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= — gallons + (0.0014 gallons/foot X 16 feet) + 0.1 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1216	PURGING ENDED AT: 1354	TOTAL VOLUME PURGED (gallons): 4.6

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)	ORP (mV)
1346	3.60	3.60	0.12	5.89	4.96	22.07	572	0.11	1.81	Yellow then	-34
1350	0.48	4.08	0.12	5.85	4.96	22.07	571	0.11	1.78	Clear	-37
1354	0.48	4.56	0.12	5.89	4.96	22.08	585	0.10	1.37	"	-40

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: Neil Stapley / Geosnake	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1254	SAMPLING ENDED AT: 1358
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: HDPE	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 (including wet ice)					
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)
19134-CW-1A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
↓	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~455
	1	PE (NS) ~~250~~ 500 mL		H2SO4	Prefilled by lab	< 2	NH3	APP	~455
↓	1	PE	250 mL	None	None	5.89	CL/NO3/TDS	APP	~455

REMARKS:
Odor: Slight odor EQ-1 collected @ 13:30

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: CW-2A	SAMPLE ID: 19137 - CW - 2A	DATE: 5/17/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 6.35	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 16 feet) + 0.1 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 0855	PURGING ENDED AT: 0917	TOTAL VOLUME PURGED (gallons): 2.2

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)	ORP (mV)
0905	1.0	1.0	0.10	6.56	5.23	22.93	1852	1.40	3.40	Yellow	-53.5
0909	0.4	1.4	0.10	6.57	5.16	22.87	1858	0.46	3.44	"	-57.5
0913	0.4	1.8	0.10	6.57	5.12	22.86	1859	0.39	3.72	"	-61.1
0917	0.4	2.2	0.10	6.57	5.05	22.87	1863	0.37	3.16	"	-62.4
					(within 0.2SU						

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: Neil Studley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0917	SAMPLING ENDED AT: 0932
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19137-CW-2A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
19137-CW-2A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	5.05	CL/NO3/TDS	APP	~380

REMARKS: EQ-2 collected @ 10:00
Odor: Slight odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: **JED Solid Waste Landfill**	SITE LOCATION: **1501 Omni Way, St. Cloud, FL 34733**	
WELL NO: CW-3A	SAMPLE ID: 19137 - CW - 3A	DATE: 5/17/19

PURGING DATA

WELL DIAMETER (inches): **2**	TUBING DIAMETER (inches): **3/16**	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet	STATIC DEPTH TO WATER (feet): 5.58	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)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x3
(only fill out if applicable)
= – gallons + (0.0014 gallons/foot X 16 feet) + 0.1 gallons = 0.37 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 0752	PURGING ENDED AT: 0830	TOTAL VOLUME PURGED (gallons): 40

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)	ORP (mV)
0802	0.20	1.20	0.12	5.91	4.80	22.60	3317	1.39	7.19	Yellow	-71.2
0806	0.40	1.60	0.10	5.84	4.82	22.62	3320	1.02	8.89	"	-65.7
0810	0.40	2.00	0.10	5.84	4.98	22.60	3358	0.87	8.13	"	-70.2
0814	0.40	2.40	0.10	5.84	5.04	22.63	3370	0.80	7.78	"	-80.3
0818	0.40	2.80	0.10	5.84	5.03	22.64	3371	0.79	8.00	"	-81.1
0822	0.40	3.20	0.10	5.84	5.14	22.67	3413	0.78	6.33	"	-87.8
0826	0.40	3.60	0.10	5.84	5.18	22.67	3420	0.75	4.77	"	-91.3
0830	0.40	4.00	0.10	5.84	5.16	22.69	3420	0.72	4.31	"	-84.3

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: Neil Stapley / Geosyntec	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0830 (0833)	SAMPLING ENDED AT: 0835
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: **HDPE**	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 (including wet ice)					
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)
19137-CW-3A	3	CG	40 mL	HCL	Prefilled by lab	< 2	VOA/EDB	APP	~150
19137-CW-3A	1	PE	500 mL	HNO3	Prefilled by lab	< 2	Metals	APP	~380
	1	PE	~~250~~ 500 mL	H2SO4	Prefilled by lab	< 2	NH3	APP	~380
↓	1	PE	250 mL	None	None	5.84	CL/NO3/TDS	APP	~380

REMARKS:
Odor: Slight odor

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) 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)

APPENDIX C
Field Instrument Calibration Logs

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED Landfill Project #: FR3347B Field Personnel: Daniel Manfel

Water Quality Meter - Model/Serial #: YSI 556 / 12M100096 Turbidimeter - Model/Serial # HACH 2100Q / 17040C057545

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV CCV		5/13/19	1836	24.63	8.32	8.17	92.8	P F
CAL ICV CCV		5/14/19	1952	22.17	8.71	8.46	96.7	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/13/19	1816	1.413	9GB299	2/2020	1.381	P F
CAL ICV CCV		5/14/19	1929	1.413	9GB299	2/2020	1.394	P F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV CCV		5/13/19	1818	7.00	9GB719	2/2021	6.99	P F
CAL ICV CCV		↓	1821	4.00	9GB303	2/2021	4.03	P F
CAL ICV CCV		↓	1822	10.00	9GA1078	1/2021	9.96	P F
CAL ICV CCV		5/14/19	1920	7.00	9GB719	2/2021	7.00	P F
CAL ICV CCV		↓	1923	4.00	9GB303	2/2021	4.02	P F
CAL ICV CCV		↓	1925	10.00	9GA1078	1/2021	9.97	P F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/13/19	1825	240	3054	6/2023	234	P F
CAL ICV CCV		5/14/19	1937	240	3054	6/2023	231	P F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV	5/13/19	10.0	P F
CAL ICV CCV	5/14/19	10.2	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	5/13/19	20.1	P F
CAL ICV CCV	5/14/19	19.7	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV	5/13/19	96.9	P F
CAL ICV CCV	5/14/19	95.1	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV	5/13/19	801	P F
CAL ICV CCV	5/14/19	799	P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration
Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0 1 mS/cm then one standard of 0 1 mS/cm is acceptable)
Calibrate pH using at least two standards (typ pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i e. pH > 7)
If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED SWDF - May 2019 GW Project #: FR 3347B Field Personnel: Neil Stapley

Water Quality Meter - Model/Serial #: YSI 556 MPS / 10G101446 Turbidimeter - Model/Serial # HACH 2100Q / 18010C064316

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL / ICV CCV		5/14/19	0842	23.58	8.482	9.18 / 8.48	108.1 / 100.0	P F
CAL ICV CCV		↓	2250	23.61	8.482	8.57	101.1	P F
CAL ICV CCV		5/15/19	2140	23.25	8.530	8.51	99.6	P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
							Acceptance Criteria: +/- 5%	
CAL / ICV CCV		5/14/19	0832	1.413	9GB199	Feb 2020	1.375 / 1.413	P F
CAL ICV CCV		↓	2240	↓	↓	↓	1.414	P F
CAL ICV CCV		5/15/19	2128				1.412	P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
							Acceptance Criteria: +/-0.2 SU	
CAL ICV CCV		5/14/19	0824	7.0	9GB719	Feb 2021	7.00	P F
CAL ICV CCV			0827	4.0	9GB303	Feb 2021	3.95	P F
CAL ICV CCV			0830	10.0	9GA1078	Jun 2021	10.09	P F
CAL ICV CCV			2230				6.93	P F
CAL ICV CCV			2234				3.91	P F
CAL ICV CCV		↓	2238				10.11	P F
CAL ICV CCV		5/15/19	2110				6.91	P F
CAL ICV CCV			2123				3.85	P F
CAL ICV CCV		↓	2126				10.06	P F

SAME AS ABOVE

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV CCV		5/14/19	0835	240.0	3054	Jun 2023	242.6	P F
CAL ICV CCV		5/14/19	2243	↓	↓	↓	239.0	P F
CAL ICV CCV		5/15/19	2131				241.8	P F

Specific Conductance Probe Cleaned? Yes No Disolved Oxygen membrane Changed? Yes No

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV CCV	5/14/19	9.95	P F
CAL ICV CCV	5/15/19	10.1	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV CCV	5/14/19	19.8	P F
CAL ICV CCV	5/15/19	19.0	P F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV CCV	5/14/19	98.6	P F
CAL ICV CCV	5/15/19	98.3	P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV CCV	5/14/19	806	P F
CAL ICV CCV	5/15/19	795	P F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Comments:

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED Solid Waste Landfill Project #: FR3347B Field Personnel: Boone Abbott

Water Quality Meter - Model/Serial #: YSI 556MPS / 12M100096 Turbidimeter - Model/Serial # Hach 2100Q / 17040C057545

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		5-16-19		25.32	(BA)	[illegible]	101.6	P F
CAL ICV (CCV)		5-16-19	1130	25.32	8.215	8.35	101.6	(P) F
CAL ICV (CCV)		5-16-19	1713	23.70	8.466	8.76	103.5	(P) F
CAL ICV (CCV)		5-17-19	1111	28.93	7.705	7.83	101.6	(P) F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		5-16-19	1117	1.413	96B299	2-20	1.408	(P) F
CAL ICV (CCV)		5-16-19	1718	1.413	96B299	2-20	1.414	(P) F
CAL ICV (CCV)		5-17-19	1120	1.413	96B299	2-20	1.423	(P) F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		5-16-19	1112	7.00	96B719	2-21	6.96	(P) F
CAL ICV (CCV)		5-16-19	1114	4.00	96B303	2-21	4.02	(P) F
CAL ICV (CCV)		5-16-19	1116	10.00	96A1078	1-21	9.97	(P) F
CAL ICV (CCV)		5-16-19	1714	7.00	96B719	2-21	7.05	(P) F
CAL ICV (CCV)		5-16-19	1716	4.00	96B303	2-21	4.01	(P) F
CAL ICV (CCV)		5-16-19	1717	10.00	96A1078	1-21	9.99	(P) F
CAL ICV (CCV)		5-17-19	1116	7.00	96B719	2-21	6.94	(P) F
CAL ICV (CCV)		5-17-19	1118	4.00	96B303	2-21	3.99	(P) F
CAL ICV (CCV)		5-17-19	1119	10.00	96A1078	1-21	9.89	(P) F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		5-16-19	1118	240@25.0	3054	6-23	245.0@26.41	(P) F
CAL ICV (CCV)		5-16-19	1720	240@25.0	3054	6-23	241.7@27.16	(P) F
CAL ICV (CCV)		5-17-19	1115	240@25.0	3054	6-23	238.4@28.99	(P) F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV (CCV)	5-16-19	10.1	(P) F
CAL ICV (CCV)	5-16-19	10.1	(P) F
CAL ICV (CCV)	5-17-19	10.2	(P) F
CAL ICV CCV			P F

11 - 40 NTU Std 40 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV (CCV)	5-16-19	21.1	(P) F
CAL ICV (CCV)	5-16-19	21.2	(P) F
CAL ICV (CCV)	5-17-19	20.4	(P) F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV (CCV)	5-16-19	100	(P) F
CAL ICV (CCV)	5-16-19	99.2	(P) F
CAL ICV (CCV)	5-17-19	100	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV (CCV)	5-16-19	785	(P) F
CAL ICV (CCV)	5-16-19	784	(P) F
CAL ICV (CCV)	5-17-19	784	(P) F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0 1 mS/cm then one standard of 0 1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i e pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments: _____

Geosyntec consultants

Geosyntec Consultants
Water Quality Instrument Calibration Form

Project/Site: JED SWDF - Spring 2019 GW Project #: FR3347B Field Personnel: N. Stapley

Water Quality Meter - Model/Serial #: YSI 556 MPS / 16G101446 Turbidimeter - Model/Serial # HACH 2100Q / 18010C064316

Dissolved Oxygen	DEP SOP FT 1500	Date	Time	Temp (°C)	Saturation (mg/L)[1]	Reading (mg/L)	Reading (%)	Pass or Fail
						Acceptance Criteria: +/-0.3mg/L		
CAL ICV (CCV)		5/16/19	1731	20.58	8.664	8.93	103.2	(P) F
CAL ICV (CCV)		5/17/19	1105	18.66	7.732	7.57	97.9	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

Specific Conductance	DEP SOP FT 1200	Date	Time	Standard (mS/cm)	Standard Lot #	Standard Exp. Date	Reading (mS/cm)	Pass or Fail
						Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		5/16/19	1719	1.413	9GB299	Feb 2020	1.409	(P) F
CAL ICV (CCV)		5/17/19	1054	↓	↓	↓	1.414	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F

pH	DEP SOP FT 1100	Date	Time	Standard (SU)	Standard Lot #	Standard Exp. Date	Reading (SU)	Pass or Fail
						Acceptance Criteria: +/-0.2 SU		
CAL ICV (CCV)		5/16/19	1710	7.0	9GB719	Feb 2021	6.90	(P) F
CAL ICV (CCV)		↓	1714	4.0	9GB303	Feb 2021	3.85	(P) F
CAL ICV (CCV)			1717	10.0	9GA1078	June 2021	10.02	(P) F
CAL ICV (CCV)		5/17/19	1045	SAME AS ABOVE			6.89	(P) F
CAL ICV (CCV)		↓	1048				3.88	(P) F
CAL ICV (CCV)			1052				10.02	(P) F
CAL ICV CCV								P F
CAL ICV CCV								P F
CAL ICV CCV								P F

ORP	SOP N/A	Date	Time	Std. mV @ Temp °C	Standard Lot #	Standard Exp. Date	Reading (mV)	Pass or Fail
						Geosyntec Acceptance Criteria: +/- 5%		
CAL ICV (CCV)		5/16/19	1722	240.0	3054	June 2023	240.9	(P) F
CAL ICV (CCV)		5/17/19	1056	↓	↓	↓	233.8	(P) F
CAL ICV CCV								P F

Specific Conductance Probe Cleaned? Yes (No) Disolved Oxygen membrane Changed? Yes (No)

0.1 - 10 NTU Std 10 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 10%	
CAL ICV (CCV)	5/16/19	9.66	(P) F
CAL ICV (CCV)	5/17/19	9.84	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

11 - 40 NTU Std 20 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 8%	
CAL ICV (CCV)	5/16/19	18.9	(P) F
CAL ICV (CCV)	5/17/19	19.6	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F

41 - 100 NTU Std 100 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 6.5%	
CAL ICV (CCV)	5/16/19	Not 100	(P) F
CAL ICV (CCV)	5/17/19	99.91	(P) F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F
CAL ICV CCV			P F

>100 NTU Std 800 NTU	Date	Reading (NTU)	Pass or Fail
		Acceptance Criteria: +/- 5%	
CAL ICV (CCV)	5/16/19	805	(P) F
CAL ICV (CCV)	5/17/19	808	(P) F
CAL ICV CCV			P F

1. See Table FS 2200-2 on the back of this form

CAL - Initial Calibration

ICV - Initial Calibration Verification

CCV - Continuing Calibration Verification

Allow adequate time for the dissolved oxygen sensor to equilibrate during air calibration

Calibrate specific conductance using at least two standards that bracket the range of expected sample readings (unless readings < 0.1 mS/cm then one standard of 0.1 mS/cm is acceptable)

Calibrate pH using at least two standards (typ. pH 4 and 7) that bracket the range of expected sample readings; always start with pH 7; add a third calibration point if needed (i.e. pH > 7)

If parameter fails to calibrate within SOP acceptance criteria then append sample results with a "J" qualifier

Comments:

Geosyntec consultants

APPENDIX D
Groundwater and Surface Water Analytical Laboratory Reports

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
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June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, May 15, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906176001	19134-CW-1A	Water	5/14/2019 12:54	5/15/2019 08:45
J1906176002	19134-MW-23A	Water	5/14/2019 09:36	5/15/2019 08:45
J1906176003	19134-MW-23B	Water	5/14/2019 10:12	5/15/2019 08:45
J1906176004	19134-MW-25A	Water	5/14/2019 13:13	5/15/2019 08:45
J1906176005	19134-MW-25B	Water	5/14/2019 13:53	5/15/2019 08:45
J1906176006	19134-MW-30A	Water	5/14/2019 11:11	5/15/2019 08:45
J1906176007	19134-MW-30B	Water	5/14/2019 11:32	5/15/2019 08:45
J1906176008	19134-MW-31A	Water	5/14/2019 11:36	5/15/2019 08:45
J1906176009	19134-MW-31B	Water	5/14/2019 12:04	5/15/2019 08:45
J1906176010	19134-EQ-1	Water	5/14/2019 13:30	5/15/2019 08:45
J1906176011	19134-TripBlank-1	Water	5/14/2019 00:00	5/15/2019 08:45

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176001** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-CW-1A** Date Collected: 05/14/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**160**		**ug/L**	**1**	40	9.0	5/16/2019 13:32	J
Barium	**69**		**ug/L**	**1**	4.0	1.0	5/16/2019 13:32	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 13:32	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 13:32	J
Chromium	**10**		**ug/L**	**1**	8.0	2.0	5/16/2019 13:32	J
Cobalt	**2.4**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 13:32	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 13:32	J
Iron	**8500**		**ug/L**	**1**	400	100	5/16/2019 13:32	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 13:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 13:32	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 13:32	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 13:32	J
Sodium	**27**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:14	J
Vanadium	**5.4**		**ug/L**	**1**	4.0	1.0	5/16/2019 13:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 13:32	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.21**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 18:31	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 18:31	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:34	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 15:55	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 15:55	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 15:55	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 15:55	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 15:55	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 15:55	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 15:55	J

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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176001** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-CW-1A** Date Collected: 05/14/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 15:55	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 15:55	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 15:55	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 15:55	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 15:55	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 15:55	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 15:55	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 15:55	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 15:55	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 15:55	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 15:55	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 15:55	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 15:55	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 15:55	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 15:55	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 15:55	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 15:55	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 15:55	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 15:55	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 15:55	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 15:55	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 15:55	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 15:55	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 15:55	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 15:55	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 15:55	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 15:55	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 15:55	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 15:55	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 15:55	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 15:55	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 15:55	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 15:55	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 15:55	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 15:55	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 15:55	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 15:55	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 15:55	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		5/16/2019 15:55	
Toluene-d8 (S)	**92**		**%**	**1**	77-119		5/16/2019 15:55	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176001** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-CW-1A** Date Collected: 05/14/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/16/2019 15:55	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 15:55	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 15:55	J
1,2-Dichloroethane-d4 (S)	**121**		**%**	**1**	77-125		5/16/2019 15:55	
Toluene-d8 (S)	**97**		**%**	**1**	80-121		5/16/2019 15:55	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		5/16/2019 15:55	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**58**		**mg/L**	**1**	5.0	0.50	5/15/2019 12:33	J
Nitrate (as N)	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	5/15/2019 12:33	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.7**		**mg/L**	**5**	0.050	0.040	5/23/2019 11:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**380**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 13:58	J
Barium	**32**		**ug/L**	**1**	4.0	1.0	5/16/2019 13:58	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 13:58	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 13:58	J
Chromium	**4.1**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 13:58	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 13:58	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 13:58	J
Iron	**890**		**ug/L**	**1**	400	100	5/16/2019 13:58	J
Lead	**4.7**	**I**	**ug/L**	**1**	12	3.0	5/16/2019 13:58	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 13:58	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 13:58	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 13:58	J
Sodium	**250**		**mg/L**	**10**	14	3.5	5/20/2019 16:17	J
Vanadium	**12**		**ug/L**	**1**	4.0	1.0	5/22/2019 15:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 13:58	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.24**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 18:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 18:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:51	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 16:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 16:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 16:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 16:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 16:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 16:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 16:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 16:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 16:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 16:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 16:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 16:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 16:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 16:34	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 16:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 16:34	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 16:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 16:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 16:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 16:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 16:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 16:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 16:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 16:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 16:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 16:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 16:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 16:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 16:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 16:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 16:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 16:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 16:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 16:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 16:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 16:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 16:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 16:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 16:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 16:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 16:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 16:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 16:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 16:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 16:34	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		5/16/2019 16:34	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		5/16/2019 16:34	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/16/2019 16:34	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 16:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 16:34	J
1,2-Dichloroethane-d4 (S)	**119**		**%**	**1**	77-125		5/16/2019 16:34	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 16:34	
Bromofluorobenzene (S)	**115**		**%**	**1**	80-129		5/16/2019 16:34	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176002** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23A** Date Collected: 05/14/19 09:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**680**		**mg/L**	**5**	25	2.5	5/15/2019 13:16	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/15/2019 13:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**16**	**J4**	**mg/L**	**20**	0.20	0.16	5/20/2019 15:53	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:02	J
Barium	**150**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:02	J
Beryllium	**0.70**	**I**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:02	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:02	J
Chromium	**2.3**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:02	J
Cobalt	**3.4**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:02	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:02	J
Iron	**3100**		**ug/L**	**1**	400	100	5/16/2019 14:02	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:02	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:02	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:02	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:02	J
Sodium	**340**		**mg/L**	**10**	14	3.5	5/20/2019 16:21	J
Vanadium	**16**		**ug/L**	**1**	4.0	1.0	5/22/2019 15:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:02	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.33**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:03	J
Thallium	**0.089**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:03	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:54	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 17:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 17:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 17:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 17:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 17:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 17:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 17:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 17:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 17:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 17:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 17:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 17:04	J
Acetone	**3.1**	**I**	**ug/L**	**1**	5.0	2.1	5/16/2019 17:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 17:04	J
Benzene	**0.29**	**I**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 17:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 17:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 17:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 17:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 17:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 17:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 17:04	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 17:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 17:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 17:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 17:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 17:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 17:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 17:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 17:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 17:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 17:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 17:04	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		5/16/2019 17:04	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		5/16/2019 17:04	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 17:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 17:04	J
1,2-Dichloroethane-d4 (S)	**117**		**%**	**1**	77-125		5/16/2019 17:04	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		5/16/2019 17:04	
Bromofluorobenzene (S)	**63**		**%**	**1**	80-129		5/16/2019 17:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**880**		**mg/L**	**10**	50	5.0	5/15/2019 13:37	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	5/15/2019 13:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**19**		**mg/L**	**25**	0.25	0.20	5/20/2019 15:56	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176003** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-23B** Date Collected: 05/14/19 10:12

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/19/2019 19:54	

Lab ID: **J1906176004** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-25A** Date Collected: 05/14/19 13:13

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:05	J
Barium	**77**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:05	J
Beryllium	**1.4**	**I**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:05	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:05	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:05	J
Cobalt	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:05	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:05	J
Iron	**19000**		**ug/L**	**1**	400	100	5/16/2019 14:05	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:05	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:05	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:05	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:05	J
Sodium	**61**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:24	J
Vanadium	**5.4**		**ug/L**	**1**	4.0	1.0	5/22/2019 15:36	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:05	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:08	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:08	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176004** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25A** Date Collected: 05/14/19 13:13

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 16:57	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 17:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 17:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 17:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 17:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 17:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 17:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 17:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 17:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 17:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 17:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 17:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 17:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 17:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 17:40	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 17:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 17:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 17:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 17:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 17:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 17:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:40	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 17:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 17:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 17:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 17:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 17:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 17:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 17:40	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176004** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25A** Date Collected: 05/14/19 13:13

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 17:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 17:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 17:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 17:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 17:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 17:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 17:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 17:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 17:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 17:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 17:40	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	70-128		5/16/2019 17:40	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		5/16/2019 17:40	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/16/2019 17:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 17:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 17:40	J
1,2-Dichloroethane-d4 (S)	**122**		**%**	**1**	77-125		5/16/2019 17:40	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 17:40	
Bromofluorobenzene (S)	**120**		**%**	**1**	80-129		5/16/2019 17:40	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**150**		**mg/L**	**2**	10	1.0	5/15/2019 13:59	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/15/2019 13:59	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**15**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:42	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**740**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176005** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-25B** Date Collected: 05/14/19 13:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:09	J
Barium	**29**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:09	J
Iron	**950**		**ug/L**	**1**	400	100	5/16/2019 14:09	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	5/16/2019 14:09	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:09	J
Sodium	**13**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:28	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 15:40	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:12	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:12	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:00	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 18:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 18:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 18:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 18:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 18:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:10	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 18:10	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176005**
Sample ID: **19134-MW-25B**

Date Received: 05/15/19 08:45 Matrix: Water
Date Collected: 05/14/19 13:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 18:10	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 18:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 18:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 18:10	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 18:10	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 18:10	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 18:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 18:10	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 18:10	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 18:10	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 18:10	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 18:10	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 18:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 18:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:10	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 18:10	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 18:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 18:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 18:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 18:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:10	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 18:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 18:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 18:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 18:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 18:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:10	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 18:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 18:10	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	70-128		5/16/2019 18:10	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		5/16/2019 18:10	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176005** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-25B** Date Collected: 05/14/19 13:53

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/16/2019 18:10	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 18:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 18:10	J
1,2-Dichloroethane-d4 (S)	**122**		**%**	**1**	77-125		5/16/2019 18:10	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 18:10	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/16/2019 18:10	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**33**		**mg/L**	**1**	5.0	0.50	5/15/2019 14:20	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 14:20	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.25**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:59	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**96**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/22/2019 13:05	J
Barium	**44**		**ug/L**	**1**	4.0	1.0	5/22/2019 13:05	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/22/2019 13:05	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:05	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 17:00	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 13:05	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/22/2019 13:05	J
Iron	**740**		**ug/L**	**1**	400	100	5/22/2019 13:05	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/22/2019 17:00	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/22/2019 13:05	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/22/2019 13:05	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/22/2019 13:05	J
Sodium	**27**		**mg/L**	**1**	1.4	0.35	5/22/2019 13:05	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:05	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/22/2019 13:05	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.39**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:16	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:16	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:10	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 18:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 18:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 18:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 18:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 18:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 18:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 18:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 18:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 18:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 18:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 18:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 18:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 18:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 18:46	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 18:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 18:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 18:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 18:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 18:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 18:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 18:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 18:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 18:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 18:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 18:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 18:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 18:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 18:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 18:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 18:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 18:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 18:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 18:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 18:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 18:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 18:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 18:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 18:46	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	70-128		5/16/2019 18:46	
Toluene-d8 (S)	**87**		**%**	**1**	77-119		5/16/2019 18:46	
Bromofluorobenzene (S)	**105**		**%**	**1**	86-123		5/16/2019 18:46	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 18:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 18:46	J
1,2-Dichloroethane-d4 (S)	**123**		**%**	**1**	77-125		5/16/2019 18:46	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		5/16/2019 18:46	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		5/16/2019 18:46	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176006** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30A** Date Collected: 05/14/19 11:11

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**45**		**mg/L**	**1**	5.0	0.50	5/15/2019 14:42	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 14:42	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.36**		**mg/L**	**1**	0.010	0.0080	5/20/2019 14:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	5/17/2019 08:56	J

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/22/2019 13:09	J
Barium	**12**		**ug/L**	**1**	4.0	1.0	5/22/2019 13:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/22/2019 13:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 17:04	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/22/2019 13:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/22/2019 13:09	J
Iron	**1600**		**ug/L**	**1**	400	100	5/22/2019 13:09	J
Lead	**4.2**	**I**	**ug/L**	**1**	12	3.0	5/22/2019 17:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/22/2019 13:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/22/2019 13:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/22/2019 13:09	J
Sodium	**6.6**		**mg/L**	**1**	1.4	0.35	5/22/2019 13:09	J
Vanadium	**1.2**	**I**	**ug/L**	**1**	4.0	1.0	5/22/2019 13:09	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/22/2019 13:09	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:20	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:20	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:13	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 19:16	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 19:16	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 19:16	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 19:16	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 19:16	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:16	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 19:16	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:16	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 19:16	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 19:16	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 19:16	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 19:16	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 19:16	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 19:16	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 19:16	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 19:16	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:16	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 19:16	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 19:16	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 19:16	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 19:16	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 19:16	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:16	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 19:16	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:16	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:16	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 19:16	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:16	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 19:16	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 19:16	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 19:16	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 19:16	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:16	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:16	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:16	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 19:16	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 19:16	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 19:16	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:16	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 19:16	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 19:16	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:16	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:16	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 19:16	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 19:16	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		5/16/2019 19:16	
Toluene-d8 (S)	**90**		**%**	**1**	77-119		5/16/2019 19:16	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/16/2019 19:16	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 19:16	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 19:16	J
1,2-Dichloroethane-d4 (S)	**120**		**%**	**1**	77-125		5/16/2019 19:16	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 19:16	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/16/2019 19:16	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	5/15/2019 15:03	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 15:03	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.07**		**mg/L**	**1**	0.010	0.0080	5/20/2019 14:29	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176007** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-30B** Date Collected: 05/14/19 11:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**940**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906176008** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-31A** Date Collected: 05/14/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:12	J
Barium	**77**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:12	J
Beryllium	**4.0**		**ug/L**	**1**	2.0	0.50	5/16/2019 14:12	J
Cadmium	**1.6**	**I**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:12	J
Chromium	**3.3**	**I**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:12	J
Cobalt	**24**		**ug/L**	**1**	8.0	2.0	5/16/2019 14:12	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:12	J
Iron	**96000**		**ug/L**	**1**	400	100	5/16/2019 14:12	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:12	J
Nickel	**14**	**I**	**ug/L**	**1**	24	6.0	5/16/2019 14:12	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:12	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:12	J
Sodium	**25**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:31	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 15:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:12	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:24	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:24	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:16	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176008** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31A** Date Collected: 05/14/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 19:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 19:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 19:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 19:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 19:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:53	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 19:53	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 19:53	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 19:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 19:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 19:53	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 19:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 19:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 19:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 19:53	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 19:53	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 19:53	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 19:53	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 19:53	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 19:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 19:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 19:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 19:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 19:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 19:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 19:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 19:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 19:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 19:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 19:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 19:53	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176008** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31A** Date Collected: 05/14/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 19:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 19:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 19:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 19:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 19:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 19:53	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 19:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 19:53	J
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	70-128		5/16/2019 19:53	
Toluene-d8 (S)	**86**		**%**	**1**	77-119		5/16/2019 19:53	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/16/2019 19:53	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 19:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 19:53	J
1,2-Dichloroethane-d4 (S)	**125**		**%**	**1**	77-125		5/16/2019 19:53	
Toluene-d8 (S)	**91**		**%**	**1**	80-121		5/16/2019 19:53	
Bromofluorobenzene (S)	**118**		**%**	**1**	80-129		5/16/2019 19:53	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**32**		**mg/L**	**2**	10	1.0	5/15/2019 16:08	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/15/2019 16:08	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**16**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:43	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1000**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176009** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31B** Date Collected: 05/14/19 12:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:15	J
Barium	**120**		**ug/L**	**1**	4.0	1.0	5/16/2019 14:15	J
Beryllium	**1.5**	**I**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:15	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:15	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:15	J
Cobalt	**19**		**ug/L**	**1**	8.0	2.0	5/16/2019 14:15	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:15	J
Iron	**56000**		**ug/L**	**1**	400	100	5/16/2019 14:15	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	5/16/2019 14:15	J
Nickel	**13**	**I**	**ug/L**	**1**	24	6.0	5/16/2019 14:15	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:15	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:15	J
Sodium	**32**		**mg/L**	**1**	1.4	0.35	5/20/2019 16:35	J
Vanadium	**0.0010**	**U**	**mg/L**	**1**	0.0040	0.0010	5/22/2019 15:47	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:15	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:29	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:29	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:20	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 20:22	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 20:22	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 20:22	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 20:22	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 20:22	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:22	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 20:22	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176009** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-MW-31B** Date Collected: 05/14/19 12:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:22	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 20:22	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 20:22	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 20:22	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 20:22	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 20:22	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 20:22	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 20:22	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 20:22	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:22	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 20:22	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 20:22	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 20:22	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 20:22	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 20:22	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:22	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 20:22	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:22	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:22	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 20:22	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:22	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 20:22	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 20:22	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 20:22	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 20:22	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:22	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:22	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:22	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 20:22	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 20:22	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 20:22	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:22	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 20:22	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 20:22	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:22	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:22	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 20:22	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 20:22	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	70-128		5/16/2019 20:22	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		5/16/2019 20:22	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176009** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-MW-31B** Date Collected: 05/14/19 12:04

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/16/2019 20:22	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 20:22	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 20:22	J
1,2-Dichloroethane-d4 (S)	**123**		**%**	**1**	77-125		5/16/2019 20:22	
Toluene-d8 (S)	**94**		**%**	**1**	80-121		5/16/2019 20:22	
Bromofluorobenzene (S)	**114**		**%**	**1**	80-129		5/16/2019 20:22	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**2**	10	1.0	5/15/2019 16:29	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/15/2019 16:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**2**	0.020	0.016	5/20/2019 16:01	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/16/2019 14:19	J
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:19	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/16/2019 14:19	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/16/2019 14:19	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:19	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/16/2019 14:19	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/16/2019 14:19	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/16/2019 14:19	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/16/2019 14:19	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/16/2019 14:19	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/16/2019 14:19	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/16/2019 14:19	J
Sodium	**0.35**	**U**	**mg/L**	**1**	1.4	0.35	5/20/2019 16:38	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/22/2019 15:50	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/16/2019 14:19	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/16/2019 17:23	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 20:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 20:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 20:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 20:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 20:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:59	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 20:59	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 20:59	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 20:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 20:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 20:59	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 20:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 20:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 20:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 20:59	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 20:59	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 20:59	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 20:59	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 20:59	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 20:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 20:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 20:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 20:59	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 20:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 20:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 20:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 20:59	J
Methylene Chloride	**30**		**ug/L**	**1**	5.0	2.5	5/16/2019 20:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 20:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 20:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 20:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 20:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 20:59	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 20:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 20:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 20:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 20:59	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 20:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 20:59	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	70-128		5/16/2019 20:59	
Toluene-d8 (S)	**88**		**%**	**1**	77-119		5/16/2019 20:59	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/16/2019 20:59	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 20:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 20:59	J
1,2-Dichloroethane-d4 (S)	**118**		**%**	**1**	77-125		5/16/2019 20:59	
Toluene-d8 (S)	**92**		**%**	**1**	80-121		5/16/2019 20:59	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/16/2019 20:59	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176010** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-EQ-1** Date Collected: 05/14/19 13:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	5/15/2019 16:51	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/15/2019 16:51	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.0080**	**U**	**mg/L**	**1**	0.010	0.0080	5/20/2019 14:32	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**110**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906176011** Date Received: 05/15/19 08:45 Matrix: Water
Sample ID: **19134-TripBlank-1** Date Collected: 05/14/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/16/2019 21:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/16/2019 21:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/16/2019 21:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/16/2019 21:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/16/2019 21:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 21:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/16/2019 21:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 21:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/16/2019 21:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/16/2019 21:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/16/2019 21:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/16/2019 21:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/16/2019 21:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/16/2019 21:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/16/2019 21:28	J

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176011** Date Received: 05/15/19 08:45 Matrix: Water

Sample ID: **19134-TripBlank-1** Date Collected: 05/14/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/16/2019 21:28	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 21:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/16/2019 21:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/16/2019 21:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/16/2019 21:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/16/2019 21:28	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/16/2019 21:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 21:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/16/2019 21:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 21:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/16/2019 21:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/16/2019 21:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/16/2019 21:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/16/2019 21:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/16/2019 21:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/16/2019 21:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/16/2019 21:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 21:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/16/2019 21:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/16/2019 21:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/16/2019 21:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/16/2019 21:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/16/2019 21:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 21:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/16/2019 21:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/16/2019 21:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/16/2019 21:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/16/2019 21:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/16/2019 21:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/16/2019 21:28	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	70-128		5/16/2019 21:28	
Toluene-d8 (S)	**89**		**%**	**1**	77-119		5/16/2019 21:28	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/16/2019 21:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/16/2019 21:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/16/2019 21:28	J
1,2-Dichloroethane-d4 (S)	**120**		**%**	**1**	77-125		5/16/2019 21:28	
Toluene-d8 (S)	**93**		**%**	**1**	80-121		5/16/2019 21:28	

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ANALYTICAL RESULTS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906176011**
Sample ID: **19134-TripBlank-1**

Date Received: 05/15/19 08:45 Matrix: Water
Date Collected: 05/14/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**117**		**%**	**1**	80-129		5/16/2019 21:28	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/4963 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3096202

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3096203 3096204

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	21	21	105	107	90-110	2	10	
Nitrate (as N)	mg/L	2	1.8	1.9	92	93	90-110	0	10	

MATRIX SPIKE SAMPLE: 3096205 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	58	20	64	28	90-110	
Nitrate (as N)	mg/L	0.009	2	1.7	83	90-110	

MATRIX SPIKE SAMPLE: 3096350 Original: J1906184002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	120	20	110	-10	90-110	
Nitrate (as N)	mg/L	1.3	2	3.9	134	90-110	

QC Batch: DGMj/3402 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/16/2019 04:00

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176008, J1906176009, J1906176010

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3096885

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Vanadium	ug/L	1.0	1.0	U
Zinc	ug/L	50	50	U

LABORATORY CONTROL SAMPLE: 3096886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	100	80-120	
Arsenic	ug/L	200	190	95	80-120	
Barium	ug/L	20	20	101	80-120	
Beryllium	ug/L	10	9.8	98	80-120	
Cadmium	ug/L	20	20	98	80-120	
Cobalt	ug/L	40	40	100	80-120	
Chromium	ug/L	40	40	101	80-120	
Copper	ug/L	80	79	99	80-120	
Iron	ug/L	2000	2000	98	80-120	
Nickel	ug/L	120	120	100	80-120	
Lead	ug/L	60	58	97	80-120	
Selenium	ug/L	800	760	95	80-120	
Vanadium	ug/L	20	20	102	80-120	
Zinc	ug/L	1000	970	97	80-120	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096920 3096921 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	97	94	75-125	4	20	
Arsenic	ug/L	160	200	340	340	93	92	75-125	1	20	
Barium	ug/L	69	20	88	86	96	85	75-125	3	20	
Beryllium	ug/L	0.1	10	10	9.7	101	97	75-125	4	20	
Cadmium	ug/L	0.2	20	20	19	98	96	75-125	3	20	
Cobalt	ug/L	2.4	40	42	41	98	96	75-125	2	20	
Chromium	ug/L	10	40	51	50	102	98	75-125	3	20	
Copper	ug/L	3.4	80	76	74	96	93	75-125	3	20	
Iron	ug/L	8500	2000	10000	10000	92	81	75-125	2	20	
Nickel	ug/L	1.4	120	120	120	101	98	75-125	2	20	
Lead	ug/L	1.5	60	59	59	98	98	75-125	0	20	
Selenium	ug/L	0	800	740	720	93	90	75-125	3	20	
Vanadium	ug/L	5.4	20	26	25	102	99	75-125	2	20	
Zinc	ug/L	8.3	1000	980	960	98	96	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096920 3096921 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Sodium	mg/L	27	7	32	32	70	79	75-125	2	20	

QC Batch: DGMj/3408 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 05/16/2019 11:45

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3097875

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3097876

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3097876

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: 3097877 3097878 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	2	2.0	2.0	102	102	80-120	0	20	

QC Batch: MSVj/3582 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/16/2019 11:29

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3098837

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3098837

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	106	70-128	
Toluene-d8 (S)	%	91	77-119	
Bromofluorobenzene (S)	%	106	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3098838 3098839

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	24	15	122	76		47		
Vinyl Chloride	ug/L	20	24	17	118	84	70-130	34	20	
Bromomethane	ug/L	20	24	8.9	122	45		93		
Chloroethane	ug/L	20	24	21	122	104		16		
Trichlorofluoromethane	ug/L	20	23	20	117	101		15		
Acetone	ug/L	20	19	15	96	75		25		
1,1-Dichloroethylene	ug/L	20	24	20	118	101	70-130	15	20	
Iodomethane (Methyl Iodide)	ug/L	20	22	12	110	61		58		
Acrylonitrile	ug/L	20	20	17	102	85		19		

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3098838 3098839

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Methylene Chloride	ug/L	20	23	21	117	106		10		
Carbon Disulfide	ug/L	20	23	19	116	95		20		
trans-1,2-Dichloroethylene	ug/L	20	23	21	117	103		13		
1,1-Dichloroethane	ug/L	20	23	21	115	105		9		
Vinyl Acetate	ug/L	20	20	12	101	61		49		
2-Butanone (MEK)	ug/L	20	19	12	97	61		45		
cis-1,2-Dichloroethylene	ug/L	20	23	20	114	98	70-130	15	20	
Bromochloromethane	ug/L	20	26	23	131	114		14		
Chloroform	ug/L	20	24	22	119	112	70-130	6	20	
1,2-Dichloroethane	ug/L	20	23	21	113	105		8		
1,1,1-Trichloroethane	ug/L	20	23	23	113	114		1		
Carbon Tetrachloride	ug/L	20	23	22	115	110		4		
Benzene	ug/L	20	24	22	119	110	70-130	8	20	
Dibromomethane	ug/L	20	23	22	113	109		4		
1,2-Dichloropropane	ug/L	20	23	22	116	112		3		
Trichloroethene	ug/L	20	23	22	115	112	70-130	2	20	
Bromodichloromethane	ug/L	20	23	23	115	115		0		
cis-1,3-Dichloropropene	ug/L	20	20	19	102	97		4		
4-Methyl-2-pentanone (MIBK)	ug/L	20	18	17	92	83		10		
trans-1,3-Dichloropropylene	ug/L	20	20	20	102	99		4		
1,1,2-Trichloroethane	ug/L	20	22	22	111	109		2		
Toluene	ug/L	20	22	20	111	99	70-130	11	20	
2-Hexanone	ug/L	20	18	16	89	78		13		
Dibromochloromethane	ug/L	20	21	19	106	97		9		
Tetrachloroethylene (PCE)	ug/L	20	22	19	109	96	70-130	13	20	
1,1,1,2-Tetrachloroethane	ug/L	20	22	20	111	100		11		
Chlorobenzene	ug/L	20	22	20	112	99	70-130	12	20	
Ethylbenzene	ug/L	20	23	21	115	104	70-130	10	20	
Bromoform	ug/L	20	20	18	100	92		9		
Styrene	ug/L	20	21	20	107	99		9		
1,1,2,2-Tetrachloroethane	ug/L	20	21	18	107	91		15		
1,2,3-Trichloropropane	ug/L	20	20	18	100	88		13		
1,4-Dichlorobenzene	ug/L	20	21	19	106	95		12		
1,2-Dichlorobenzene	ug/L	20	21	20	107	98	70-130	10	20	
Xylene (Total)	ug/L	60	70	62	117	104	70-130	11	20	
1,2-Dichloroethane-d4 (S)	%				93	93	70-128	1		
Toluene-d8 (S)	%				92	92	77-119	1		
Bromofluorobenzene (S)	%				102	101	86-123	1		

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3098840 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	17	85		
Vinyl Chloride	ug/L	0	20	19	93	70-130	
Bromomethane	ug/L	0	20	12	59		
Chloroethane	ug/L	0	20	22	108		
Trichlorofluoromethane	ug/L	0	20	21	103		
Acetone	ug/L	0	20	17	84		
1,1-Dichloroethylene	ug/L	0	20	21	106	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	14	70		
Acrylonitrile	ug/L	0	20	21	103		
Methylene Chloride	ug/L	0	20	21	106		
Carbon Disulfide	ug/L	0	20	20	99		
trans-1,2-Dichloroethylene	ug/L	0	20	22	108		
1,1-Dichloroethane	ug/L	0	20	22	110		
Vinyl Acetate	ug/L	0	20	16	81		
2-Butanone (MEK)	ug/L	0	20	13	66		
cis-1,2-Dichloroethylene	ug/L	0	20	20	102	70-130	
Bromochloromethane	ug/L	0	20	24	121		
Chloroform	ug/L	0	20	23	115	70-130	
1,2-Dichloroethane	ug/L	0	20	22	110		
1,1,1-Trichloroethane	ug/L	0	20	24	119		
Carbon Tetrachloride	ug/L	0	20	23	113		
Benzene	ug/L	0	20	23	113	70-130	
Dibromomethane	ug/L	0	20	22	111		
1,2-Dichloropropane	ug/L	0	20	23	114		
Trichloroethene	ug/L	0	20	22	109	70-130	
Bromodichloromethane	ug/L	0	20	23	114		
cis-1,3-Dichloropropene	ug/L	0	20	20	100		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	19	93		
trans-1,3-Dichloropropylene	ug/L	0	20	20	100		
1,1,2-Trichloroethane	ug/L	0	20	22	109		
Toluene	ug/L	0	20	20	100	70-130	
2-Hexanone	ug/L	0	20	18	89		
Dibromochloromethane	ug/L	0	20	21	103		
Tetrachloroethylene (PCE)	ug/L	0	20	19	97	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	20	100		
Chlorobenzene	ug/L	0	20	20	101	70-130	
Ethylbenzene	ug/L	0	20	22	108	70-130	
Bromoform	ug/L	0	20	20	98		
Styrene	ug/L	0	20	20	102		
1,1,2,2-Tetrachloroethane	ug/L	0	20	20	101		
1,2,3-Trichloropropane	ug/L	0	20	19	93		

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3098840 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	0	20	21	104		
1,2-Dichlorobenzene	ug/L	0	20	20	101	70-130	
Xylene (Total)	ug/L	0	60	64	106	70-130	
1,2-Dichloroethane-d4 (S)	%	99			95	70-128	
Toluene-d8 (S)	%	92			92	77-119	
Bromofluorobenzene (S)	%	106			106	86-123	

QC Batch: WCAj/4983 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006

METHOD BLANK: 3099302

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3099303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	330	111	85-115	

SAMPLE DUPLICATE: 3099304 Original: J1906033001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	470	430	10	10	

QC Batch: MSVj/3590 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 05/15/2019 15:00

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3100285

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	119	77-125	
Toluene-d8 (S)	%	96	80-121	
Bromofluorobenzene (S)	%	109	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3100286 3100287

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	1	0.81	0.88	81	88	70-130	8	30	
1,2-Dibromo-3-Chloropropane	ug/L	1	0.76	0.11U	76	0	70-130	200	30	
1,2-Dichloroethane-d4 (S)	%				118	122	77-125	4		
Toluene-d8 (S)	%				93	94	80-121	2		
Bromofluorobenzene (S)	%				114	112	80-129	2		

MATRIX SPIKE SAMPLE: 3100296 Original: J1906176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	1	0.89	89	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	1	0.11	0	70-130	
1,2-Dichloroethane-d4 (S)	%	119			120	77-125	
Toluene-d8 (S)	%	94			92	80-121	
Bromofluorobenzene (S)	%	115			110	80-129	

QC Batch: WCAj/5009 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906176007, J1906176008, J1906176009, J1906176010

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3100491

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3100492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	105	85-115	

SAMPLE DUPLICATE: 3100493 Original: J1906268001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	54	59	9	10	

QC Batch: DGMj/3420 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906176001, J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008,

METHOD BLANK: 3101153

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	51	103	80-120	
Thallium	ug/L	50	55	111	80-120	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101155 3101156 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.21	50	52	53	104	107	75-125	2	20	
Thallium	ug/L	0.026	50	56	50	112	100	75-125	12	20	

QC Batch: WCAg/6515 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906176001

METHOD BLANK: 3101566

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.46	93	90-110	

LABORATORY CONTROL SAMPLE: 3101568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	94	90-110	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101569 3101570 Original: G1903646005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.04	0.4	0.43	0.43	97	96	90-110	0	10	

QC Batch: WCAg/6516 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906176002, J1906176003, J1906176004, J1906176005, J1906176006, J1906176007, J1906176008, J1906176009,

METHOD BLANK: 3101582

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	104	90-110	

LABORATORY CONTROL SAMPLE: 3101584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101585 3101586 Original: J1906176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	16	8	22	22	80	79	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/3428 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/22/2019 03:30

Associated Lab Samples: J1906176006, J1906176007

METHOD BLANK: 3102535

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Vanadium	ug/L	1.0	1.0	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Chromium	ug/L	2.0	2.0	U

LABORATORY CONTROL SAMPLE: 3102536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	94	80-120	
Arsenic	ug/L	200	190	94	80-120	
Barium	ug/L	20	19	97	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	19	94	80-120	
Cobalt	ug/L	40	40	99	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	73	91	80-120	
Iron	ug/L	2000	1800	92	80-120	
Sodium	mg/L	7	6.9	98	80-120	
Nickel	ug/L	120	120	97	80-120	

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QUALITY CONTROL DATA

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3102536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	60	59	99	80-120	
Selenium	ug/L	800	760	94	80-120	
Vanadium	ug/L	20	22	108	80-120	
Zinc	ug/L	1000	960	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102537 3102538 Original: J1906268001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	180	180	89	90	75-125	1	20	
Arsenic	ug/L	3	200	190	190	95	95	75-125	0	20	
Barium	ug/L	130	20	150	150	83	89	75-125	1	20	
Beryllium	ug/L	1.2	10	11	11	95	95	75-125	0	20	
Cadmium	ug/L	0	20	19	19	96	95	75-125	1	20	
Cobalt	ug/L	0	40	40	40	99	99	75-125	0	20	
Chromium	ug/L	1.6	40	39	38	98	95	75-125	3	20	
Copper	ug/L	0	80	72	68	90	85	75-125	6	20	
Iron	ug/L	880	2000	2700	2700	92	91	75-125	0	20	
Sodium	mg/L	21	7	27	27	89	90	75-125	0	20	
Nickel	ug/L	1.9	120	120	120	98	98	75-125	0	20	
Lead	ug/L	3.2	60	60	61	95	97	75-125	1	20	
Selenium	ug/L	0	800	760	760	95	95	75-125	0	20	
Vanadium	ug/L	34	20	50	54	84	104	75-125	8	20	
Zinc	ug/L	8.1	1000	990	970	99	97	75-125	2	20	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

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

J4 Estimated Result

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906176001	19134-CW-1A			EPA 300.0	WCAj/4963
J1906176002	19134-MW-23A			EPA 300.0	WCAj/4963
J1906176003	19134-MW-23B			EPA 300.0	WCAj/4963
J1906176004	19134-MW-25A			EPA 300.0	WCAj/4963
J1906176005	19134-MW-25B			EPA 300.0	WCAj/4963
J1906176006	19134-MW-30A			EPA 300.0	WCAj/4963
J1906176007	19134-MW-30B			EPA 300.0	WCAj/4963
J1906176008	19134-MW-31A			EPA 300.0	WCAj/4963
J1906176009	19134-MW-31B			EPA 300.0	WCAj/4963
J1906176010	19134-EQ-1			EPA 300.0	WCAj/4963
J1906176001	19134-CW-1A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176002	19134-MW-23A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176003	19134-MW-23B	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176004	19134-MW-25A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176005	19134-MW-25B	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176008	19134-MW-31A	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176009	19134-MW-31B	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176010	19134-EQ-1	SW-846 3010A	DGMj/3402	SW-846 6010	ICPj/1959
J1906176001	19134-CW-1A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176002	19134-MW-23A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176003	19134-MW-23B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176004	19134-MW-25A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176005	19134-MW-25B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176006	19134-MW-30A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176007	19134-MW-30B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176008	19134-MW-31A	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176009	19134-MW-31B	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176010	19134-EQ-1	SW-846 7470A	DGMj/3408	SW-846 7470A	CVAj/1518
J1906176001	19134-CW-1A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176002	19134-MW-23A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176003	19134-MW-23B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906176004	19134-MW-25A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176005	19134-MW-25B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176006	19134-MW-30A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176007	19134-MW-30B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176008	19134-MW-31A	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176009	19134-MW-31B	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176010	19134-EQ-1	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176011	19134-TripBlank-1	SW-846 5030B	MSVj/3582	SW-846 8260B	MSVj/3583
J1906176001	19134-CW-1A			SM 2540 C	WCAj/4983
J1906176002	19134-MW-23A			SM 2540 C	WCAj/4983
J1906176003	19134-MW-23B			SM 2540 C	WCAj/4983
J1906176004	19134-MW-25A			SM 2540 C	WCAj/4983
J1906176005	19134-MW-25B			SM 2540 C	WCAj/4983
J1906176006	19134-MW-30A			SM 2540 C	WCAj/4983
J1906176001	19134-CW-1A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176002	19134-MW-23A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176003	19134-MW-23B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176004	19134-MW-25A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176005	19134-MW-25B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176006	19134-MW-30A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176007	19134-MW-30B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176008	19134-MW-31A	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176009	19134-MW-31B	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176010	19134-EQ-1	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176011	19134-TripBlank-1	SW-846 5030B	MSVj/3590	SW-846 8260B (SIM)	MSVj/3591
J1906176007	19134-MW-30B			SM 2540 C	WCAj/5009
J1906176008	19134-MW-31A			SM 2540 C	WCAj/5009
J1906176009	19134-MW-31B			SM 2540 C	WCAj/5009
J1906176010	19134-EQ-1			SM 2540 C	WCAj/5009

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906176 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906176001	19134-CW-1A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176002	19134-MW-23A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176003	19134-MW-23B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176004	19134-MW-25A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176005	19134-MW-25B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176006	19134-MW-30A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176007	19134-MW-30B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176008	19134-MW-31A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176009	19134-MW-31B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176010	19134-EQ-1	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906176001	19134-CW-1A			EPA 350.1	WCAg/6515
J1906176002	19134-MW-23A			EPA 350.1	WCAg/6516
J1906176003	19134-MW-23B			EPA 350.1	WCAg/6516
J1906176004	19134-MW-25A			EPA 350.1	WCAg/6516
J1906176005	19134-MW-25B			EPA 350.1	WCAg/6516
J1906176006	19134-MW-30A			EPA 350.1	WCAg/6516
J1906176007	19134-MW-30B			EPA 350.1	WCAg/6516
J1906176008	19134-MW-31A			EPA 350.1	WCAg/6516
J1906176009	19134-MW-31B			EPA 350.1	WCAg/6516
J1906176010	19134-EQ-1			EPA 350.1	WCAg/6516
J1906176006	19134-MW-30A	SW-846 3010A	DGMj/3428	SW-846 6010	ICPj/1975
J1906176007	19134-MW-30B	SW-846 3010A	DGMj/3428	SW-846 6010	ICPj/1975

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 3230
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.

* J 1 9 0 6 1 7 6 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Stapley + Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	1 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1501 Omni Way, S1. Cloud, FL

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 40 mL Vials — ANALYSIS REQUIRED: App I VOAs+EDB/DBCP — HCL	500 mL Plastic — App I Metals+Fe,Hg,Na — HNO3	500 mL Plastic — Cl/NO3/TDS — Ice	250 mL Plastic — NH3 — H2SO4	LABORATORY I.D. NUMBER
19134-CW-3A	~~Obs~~ 1A — Sample ID should be	G	5/14/19	1254	GW	6		3	1	1	1	001
19134-MW-23	A 1A, not 3A, per Neil			0936								002
19134-MW-23	B Stapley 5/17/19 Chw			1012								003
19134-MW-25	A			1313								004
19134-MW-25	B			1353								005
19134-MW-30	A			1111								006
19134-MW-30	B			1132								007
19134-MW-31	A			1136	↓							008
19134-MW-31	B	↓	↓	1204	GW	↓		↓	↓	↓	↓	009
19134-EQ-1		G	5/14/19	1330	W	6		3	1	1	1	010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	5/14/19	1600	FedEx	5/14/19	1600
2	FedEx	5-15-19	8:45	[signature]	5/15/19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone
Supplier of Water:
Site-Address:

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, Fl
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 8

7.1597

* J 1 9 0 6 1 7 6 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Stapley & Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	2 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF, 1501 Omni Way, St Cloud, FL

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
									HCL	HNO3	Ice	H2SO4							
19134-TripBlank-1		-	-	-	DI H2O	3			3										011

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = Ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1				Fedex		
2	Fedex	5-15-19	8:45	[signature]	5-15-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J-E-D Landfill F/K/A Oak Hammock Disposal

Date/Time Rcvd: 5-15-19 8:45 Log-In request number: J1906176

Received by: BA Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe): _____

Type: ☒ Cooler ☐ Box ☐ Other (describe) _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓	✓	
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

Trip Blank vials had borderline headspace
-004 metals bottle say "35A" NH3 container only has 19134
dates and times matched COC.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 7470A

Preparation: SW-846 7470A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for Mercury in the Continuing Calibration Verification (CCV) standards for analytical batch 1518, indicating increased sensitivity. The client samples (J1906176001 through -010) reported in this batch did not contain the analyte in question. Since the apparent problem equates to a potential high bias, the data quality is not affected.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for Vinyl Chloride between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3098838, in comparison with 3098839. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criterion was exceeded for the following surrogate in sample J1906176003 due to matrix interferences:Bromofluorobenzene. This surrogate is not associated with any target analytes in the sample. No further corrective action was required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 350.1

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike recovery of NH3 for J1906176002 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. No further corrective action was required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906176

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

J1906167001 and J1906167002 were analyzed at dilution due to high Chloride levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for Fluoride between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3096204 in comparison with3096203. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The matrix spike (MS) recoveries of Fluoride, Chloride, Nitrate and Sulfate for J1906176001 and J1906184002 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

The matrix spike (MS) recovery of Nitrite for J1906184002 outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The offending analytes were not detected in the client sample. No further corrective action is required.

The matrix spike recovery ofNitrate for J1906184002 was outside control criteria due to the presence of target analytes in the sample. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix. The affected sample is qualified to indicate matrix interference.

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E. Serial Diluion:

F. Samples:

G. Other:

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Phone: (904)363-9350
Fax: (904)363-9354

June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, May 16, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906272001	19135-MW-1A	Water	5/15/2019 07:40	5/16/2019 08:45
J1906272002	19135-MW-1B	Water	5/15/2019 08:02	5/16/2019 08:45
J1906272003	19135-MW-2A	Water	5/15/2019 08:52	5/16/2019 08:45
J1906272004	19135-MW-2B	Water	5/15/2019 09:08	5/16/2019 08:45
J1906272005	19135-MW-3A	Water	5/15/2019 10:18	5/16/2019 08:45
J1906272006	19135-MW-3B	Water	5/15/2019 09:56	5/16/2019 08:45
J1906272007	19135-MW-4A	Water	5/15/2019 11:36	5/16/2019 08:45
J1906272008	19135-MW-4B	Water	5/15/2019 11:10	5/16/2019 08:45
J1906272009	19135-MW-5A	Water	5/15/2019 12:54	5/16/2019 08:45
J1906272010	19135-MW-5B	Water	5/15/2019 12:32	5/16/2019 08:45
J1906272011	19135-MW-6A	Water	5/15/2019 14:10	5/16/2019 08:45
J1906272012	19135-MW-6B	Water	5/15/2019 13:46	5/16/2019 08:45
J1906272013	19135-MW-16AR	Water	5/15/2019 14:03	5/16/2019 08:45
J1906272014	19135-MW-16BR	Water	5/15/2019 14:18	5/16/2019 08:45
J1906272015	19135-MW-17AR	Water	5/15/2019 12:26	5/16/2019 08:45
J1906272016	19135-MW-17BR	Water	5/15/2019 13:18	5/16/2019 08:45
J1906272017	19135-MW-27A	Water	5/15/2019 07:39	5/16/2019 08:45
J1906272018	19135-MW-27B	Water	5/15/2019 08:28	5/16/2019 08:45
J1906272019	19135-MW-28A	Water	5/15/2019 09:15	5/16/2019 08:45
J1906272020	19135-MW-28B	Water	5/15/2019 09:50	5/16/2019 08:45
J1906272021	19135-MW-29A	Water	5/15/2019 10:40	5/16/2019 08:45
J1906272022	19135-MW-29B	Water	5/15/2019 11:08	5/16/2019 08:45
J1906272023	19135-TripBlank-2	Water	5/15/2019 00:00	5/16/2019 08:45
J1906272024	19135-TripBlank-3	Water	5/15/2019 00:00	5/16/2019 08:45
J1906272025	19135-TripBlank-4	Water	5/15/2019 00:00	5/16/2019 08:45

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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272001** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1A** Date Collected: 05/15/19 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:33	J
Barium	**40**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:33	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:33	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:33	J
Chromium	**3.1**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:33	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:33	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:33	J
Iron	**5800**		**ug/L**	**1**	400	100	5/28/2019 14:33	J
Lead	**3.1**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:33	J
Nickel	**6.6**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 14:33	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:33	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:33	J
Sodium	**250**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:33	J
Vanadium	**15**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:33	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.14**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:33	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:33	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:56	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 10:04	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 10:04	J
Tetrachloro-m-xylene (S)	**81**		**%**	**1**	64-150		5/31/2019 10:04	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272001** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1A** Date Collected: 05/15/19 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 12:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 12:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 12:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 12:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 12:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 12:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 12:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 12:05	J
Acetone	**8.3**		**ug/L**	**1**	5.0	2.1	5/28/2019 12:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 12:05	J
Benzene	**2.4**		**ug/L**	**1**	1.0	0.16	5/28/2019 12:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 12:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 12:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 12:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 12:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 12:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 12:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 12:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272001** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-1A** Date Collected: 05/15/19 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 12:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 12:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 12:05	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 12:05	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 12:05	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 12:05	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**550**		**mg/L**	**5**	25	2.5	5/16/2019 18:12	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 18:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**12**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:44	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**980**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:37	J
Barium	**72**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:37	J
Beryllium	**0.50**	**I**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:37	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:37	J
Cobalt	**7.8**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:37	J
Iron	**24000**		**ug/L**	**1**	400	100	5/28/2019 14:37	J
Lead	**6.7**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:37	J
Nickel	**9.1**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 14:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:37	J
Sodium	**250**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:37	J
Vanadium	**17**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:37	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:37	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.13**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:38	J
Thallium	**0.10**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:38	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:59	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 10:35	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 10:35	J
Tetrachloro-m-xylene (S)	**0**	**J4**	**%**	**1**	64-150		5/31/2019 10:35	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 12:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 12:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 12:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 12:35	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 12:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 12:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 12:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 12:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 12:35	J
Acetone	**5.7**		**ug/L**	**1**	5.0	2.1	5/28/2019 12:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 12:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 12:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 12:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 12:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 12:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 12:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 12:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 12:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 12:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 12:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 12:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 12:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 12:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 12:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 12:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 12:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 12:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 12:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 12:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 12:35	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		5/28/2019 12:35	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 12:35	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272002** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-1B** Date Collected: 05/15/19 08:02

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/28/2019 12:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**730**		**mg/L**	**10**	50	5.0	5/16/2019 19:16	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	5/16/2019 19:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.2**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:11	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:41	J
Barium	**64**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:41	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:41	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:41	J
Chromium	**2.0**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:41	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:41	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:41	J
Iron	**13000**		**ug/L**	**1**	400	100	5/28/2019 14:41	J
Lead	**6.4**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:41	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:41	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:41	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:41	J
Sodium	**73**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:41	J
Vanadium	**9.0**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:41	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:41	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:09	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 12:12	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 12:12	J
Tetrachloro-m-xylene (S)	**79**		**%**	**1**	64-150		5/31/2019 12:12	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 13:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 13:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 13:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 13:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 13:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 13:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 13:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 13:05	J
Acetone	**3.9**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 13:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 13:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 13:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 13:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 13:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 13:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 13:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 13:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 13:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 13:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 13:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 13:05	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 13:05	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 13:05	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/28/2019 13:05	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**200**		**mg/L**	**1**	5.0	0.50	5/16/2019 19:59	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 19:59	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.4**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:15	G

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272003** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-2A** Date Collected: 05/15/19 08:52

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**530**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

Lab ID: **J1906272004** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-2B** Date Collected: 05/15/19 09:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:45	J
Barium	**49**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:45	J
Beryllium	**1.2**	**I**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:45	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:45	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:45	J
Cobalt	**9.1**		**ug/L**	**1**	8.0	2.0	5/28/2019 14:45	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:45	J
Iron	**24000**		**ug/L**	**1**	400	100	5/28/2019 14:45	J
Lead	**5.6**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:45	J
Nickel	**18**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 14:45	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:45	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:45	J
Sodium	**140**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:45	J
Vanadium	**16**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:45	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:45	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:46	J
Thallium	**0.061**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:46	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272004** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2B** Date Collected: 05/15/19 09:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:31	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 12:45	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 12:45	J
Tetrachloro-m-xylene (S)	**92**		**%**	**1**	64-150		5/31/2019 12:45	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 16:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 16:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 16:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 16:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 16:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 16:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 16:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 16:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 16:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 16:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 16:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 16:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 16:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 16:47	J
Acetone	**4.1**	**I**	**ug/L**	**1**	5.0	2.1	5/24/2019 16:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 16:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 16:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 16:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 16:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 16:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 16:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 16:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 16:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 16:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 16:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 16:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 16:47	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272004** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-2B** Date Collected: 05/15/19 09:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 16:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 16:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 16:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 16:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 16:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 16:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 16:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 16:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 16:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 16:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 16:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 16:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 16:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 16:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 16:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 16:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 16:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 16:47	J
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	70-128		5/24/2019 16:47	
Toluene-d8 (S)	**108**		**%**	**1**	77-119		5/24/2019 16:47	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		5/24/2019 16:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**330**		**mg/L**	**2**	10	1.0	5/16/2019 20:21	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/16/2019 20:21	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**5.4**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**900**		**mg/L**	**1**	10	10	5/20/2019 12:17	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272005** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3A** Date Collected: 05/15/19 10:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:56	J
Barium	**64**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:56	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:56	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:56	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:56	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:56	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:56	J
Iron	**5700**		**ug/L**	**1**	400	100	5/28/2019 14:56	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:56	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:56	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:56	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:56	J
Sodium	**26**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:56	J
Vanadium	**7.5**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:56	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:56	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:51	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:35	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 14:50	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 14:50	J
Tetrachloro-m-xylene (S)	**98**		**%**	**1**	64-150		5/31/2019 14:50	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272005** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3A** Date Collected: 05/15/19 10:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 17:23	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 17:23	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 17:23	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 17:23	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 17:23	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 17:23	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 17:23	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 17:23	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 17:23	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 17:23	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 17:23	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 17:23	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 17:23	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 17:23	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 17:23	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 17:23	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 17:23	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 17:23	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 17:23	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 17:23	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 17:23	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 17:23	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 17:23	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 17:23	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 17:23	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 17:23	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 17:23	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 17:23	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 17:23	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 17:23	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 17:23	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 17:23	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 17:23	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 17:23	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 17:23	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 17:23	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 17:23	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272005** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-3A** Date Collected: 05/15/19 10:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 17:23	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 17:23	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 17:23	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 17:23	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 17:23	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 17:23	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 17:23	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 17:23	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		5/24/2019 17:23	
Toluene-d8 (S)	**102**		**%**	**1**	77-119		5/24/2019 17:23	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		5/24/2019 17:23	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**30**		**mg/L**	**5**	25	2.5	5/16/2019 22:09	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 22:09	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.3**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:17	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:00	J
Barium	**36**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:00	J
Beryllium	**1.8**	**I**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:00	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:00	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:00	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:00	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:00	J
Iron	**1200**		**ug/L**	**1**	400	100	5/28/2019 15:00	J
Lead	**3.2**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 15:00	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:00	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:00	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:00	J
Sodium	**94**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:00	J
Vanadium	**13**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:00	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:00	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:55	J
Thallium	**0.077**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:38	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 14:19	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 14:19	J
Tetrachloro-m-xylene (S)	**96**		**%**	**1**	64-150		5/31/2019 14:19	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 13:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 13:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 13:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 13:35	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 13:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 13:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 13:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 13:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 13:35	J
Acetone	**3.6**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 13:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 13:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 13:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 13:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 13:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 13:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 13:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 13:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 13:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 13:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 13:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 13:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 13:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 13:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 13:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 13:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 13:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 13:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 13:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 13:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 13:35	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 13:35	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 13:35	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272006** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-3B** Date Collected: 05/15/19 09:56

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 13:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**160**		**mg/L**	**5**	25	2.5	5/16/2019 21:47	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 21:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.6**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:04	J
Barium	**55**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:04	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:04	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:04	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:04	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:04	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:04	J
Iron	**4600**		**ug/L**	**1**	400	100	5/28/2019 15:04	J
Lead	**7.8**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 15:04	J
Nickel	**8.2**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 15:04	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:04	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:04	J
Sodium	**39**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:04	J
Vanadium	**5.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:04	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:58	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:58	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:41	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 17:25	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 17:25	J
Tetrachloro-m-xylene (S)	**71**		**%**	**1**	64-150		5/31/2019 17:25	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 14:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 14:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 14:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 14:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 14:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 14:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 14:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 14:05	J
Acetone	**2.2**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 14:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 14:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 14:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 14:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 14:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 14:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:05	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 14:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 14:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 14:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 14:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 14:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 14:05	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		5/28/2019 14:05	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 14:05	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/28/2019 14:05	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**63**		**mg/L**	**5**	25	2.5	5/17/2019 00:18	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 00:18	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.6**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:20	G

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272007** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-4A** Date Collected: 05/15/19 11:36

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**700**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272008** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-4B** Date Collected: 05/15/19 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:07	J
Barium	**40**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:07	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:07	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:07	J
Chromium	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:07	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:07	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:07	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/28/2019 15:07	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:07	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:07	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:07	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:07	J
Sodium	**92**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:07	J
Vanadium	**22**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:07	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:07	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.20**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272008** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4B** Date Collected: 05/15/19 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:44	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 16:25	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 16:25	J
Tetrachloro-m-xylene (S)	**89**		**%**	**1**	64-150		5/31/2019 16:25	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 14:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 14:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 14:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 14:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 14:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 14:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 14:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 14:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 14:35	J
Acetone	**3.1**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 14:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 14:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 14:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 14:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 14:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 14:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 14:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:35	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272008** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-4B** Date Collected: 05/15/19 11:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 14:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 14:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 14:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 14:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 14:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 14:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 14:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 14:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 14:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 14:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 14:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 14:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 14:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 14:35	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	70-128		5/28/2019 14:35	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 14:35	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 14:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**160**		**mg/L**	**5**	25	2.5	5/16/2019 23:56	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/16/2019 23:56	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**13**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:21	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272009** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5A** Date Collected: 05/15/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:11	J
Barium	**2.9**	**I**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:11	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:11	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:11	J
Chromium	**2.5**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:11	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:11	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:11	J
Iron	**170**	**I**	**ug/L**	**1**	400	100	5/28/2019 15:11	J
Lead	**14**		**ug/L**	**1**	12	3.0	5/28/2019 15:11	J
Nickel	**11**	**I**	**ug/L**	**1**	24	6.0	5/28/2019 15:11	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:11	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:11	J
Sodium	**11**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:11	J
Vanadium	**3.5**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:11	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:11	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:07	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:07	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:47	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 00:36	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 00:36	J
Tetrachloro-m-xylene (S)	**96**		**%**	**1**	64-150		5/31/2019 00:36	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272009** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5A** Date Collected: 05/15/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 15:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 15:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 15:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 15:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 15:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 15:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 15:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 15:04	J
Acetone	**4.2**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 15:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 15:04	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 15:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 15:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 15:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 15:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:04	J
Chloromethane	**2.5**		**ug/L**	**1**	1.0	0.21	5/28/2019 15:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 15:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 15:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 15:04	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272009** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-5A** Date Collected: 05/15/19 12:54

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 15:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 15:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 15:04	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 15:04	
Toluene-d8 (S)	**99**		**%**	**1**	77-119		5/28/2019 15:04	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		5/28/2019 15:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	5/17/2019 01:24	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 01:24	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.8**		**mg/L**	**25**	0.25	0.20	5/20/2019 16:22	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**230**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:15	J
Barium	**50**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:15	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:15	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:15	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:15	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:15	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:15	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/28/2019 15:15	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:15	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:15	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:15	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:15	J
Sodium	**86**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:15	J
Vanadium	**8.5**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:15	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:15	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.18**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:33	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:33	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:51	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 00:06	J
Ethylene Dibromide (EDB)	**0.0066**	**U**	**ug/L**	**1**	0.021	0.0066	5/31/2019 00:06	J
Tetrachloro-m-xylene (S)	**70**		**%**	**1**	64-150		5/31/2019 00:06	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 20:41	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 20:41	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 20:41	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 20:41	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 20:41	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 20:41	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 20:41	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 20:41	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 20:41	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 20:41	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 20:41	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 20:41	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 20:41	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 20:41	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 20:41	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 20:41	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 20:41	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 20:41	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 20:41	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 20:41	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 20:41	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 20:41	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 20:41	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 20:41	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 20:41	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 20:41	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 20:41	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 20:41	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 20:41	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 20:41	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 20:41	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 20:41	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 20:41	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 20:41	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 20:41	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 20:41	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 20:41	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 20:41	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 20:41	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 20:41	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 20:41	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 20:41	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 20:41	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 20:41	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 20:41	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		5/24/2019 20:41	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		5/24/2019 20:41	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272010** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-5B** Date Collected: 05/15/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		5/24/2019 20:41	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**140**		**mg/L**	**5**	25	2.5	5/17/2019 07:51	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 07:51	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**11**		**mg/L**	**20**	0.20	0.16	5/20/2019 16:23	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:18	J
Barium	**3.9**	**I**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:18	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:18	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:18	J
Chromium	**2.0**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:18	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:18	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:18	J
Iron	**16000**		**ug/L**	**1**	400	100	5/28/2019 15:18	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:18	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:18	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:18	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:18	J
Sodium	**22**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:18	J
Vanadium	**4.9**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:18	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:18	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:48	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:48	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:54	J
SEMIVOLATILES								
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	5/22/2019 12:32	J
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 03:10	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 03:10	J
Tetrachloro-m-xylene (S)	**110**		**%**	**1**	64-150		5/31/2019 03:10	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 21:11	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 21:11	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 21:11	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 21:11	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 21:11	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:11	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 21:11	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:11	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 21:11	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 21:11	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 21:11	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 21:11	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 21:11	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 21:11	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 21:11	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 21:11	J
Benzene	**3.0**		**ug/L**	**1**	1.0	0.16	5/24/2019 21:11	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 21:11	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 21:11	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 21:11	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 21:11	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 21:11	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:11	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 21:11	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:11	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:11	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 21:11	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:11	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 21:11	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 21:11	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 21:11	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 21:11	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:11	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:11	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:11	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 21:11	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 21:11	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 21:11	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:11	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 21:11	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 21:11	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 21:11	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:11	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 21:11	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 21:11	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		5/24/2019 21:11	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		5/24/2019 21:11	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/24/2019 21:11	

VOLATILES

Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**54**		**mg/L**	**1**	5.0	0.50	5/17/2019 03:33	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 03:33	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272011** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-6A** Date Collected: 05/15/19 14:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**5.0**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:24	G

Lab ID: **J1906272012** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-6B** Date Collected: 05/15/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:22	J
Barium	**47**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:22	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:22	J
Iron	**1300**		**ug/L**	**1**	400	100	5/28/2019 15:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:22	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:22	J
Sodium	**12**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:22	J
Vanadium	**2.7**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:22	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:52	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:52	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 17:57	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272012** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6B** Date Collected: 05/15/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 01:36	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 01:36	J
Tetrachloro-m-xylene (S)	**106**		**%**	**1**	64-150		5/31/2019 01:36	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/24/2019 21:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/24/2019 21:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/24/2019 21:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/24/2019 21:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/24/2019 21:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/24/2019 21:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/24/2019 21:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/24/2019 21:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/24/2019 21:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/24/2019 21:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/24/2019 21:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/24/2019 21:47	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/24/2019 21:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/24/2019 21:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 21:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/24/2019 21:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/24/2019 21:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/24/2019 21:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/24/2019 21:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/24/2019 21:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/24/2019 21:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/24/2019 21:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/24/2019 21:47	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/24/2019 21:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/24/2019 21:47	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272012** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-6B** Date Collected: 05/15/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/24/2019 21:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/24/2019 21:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/24/2019 21:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/24/2019 21:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/24/2019 21:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/24/2019 21:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/24/2019 21:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/24/2019 21:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/24/2019 21:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/24/2019 21:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/24/2019 21:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/24/2019 21:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/24/2019 21:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/24/2019 21:47	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		5/24/2019 21:47	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		5/24/2019 21:47	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/24/2019 21:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**38**		**mg/L**	**1**	5.0	0.50	5/17/2019 02:29	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 02:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.21**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:05	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**85**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272013** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16AR** Date Collected: 05/15/19 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:26	J
Barium	**51**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:26	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:26	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:26	J
Chromium	**3.1**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:26	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:26	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:26	J
Iron	**890**		**ug/L**	**1**	400	100	5/28/2019 15:26	J
Lead	**3.7**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 15:26	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:26	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:26	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:26	J
Sodium	**210**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:26	J
Vanadium	**18**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:26	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.27**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 22:56	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 22:56	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:00	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 02:06	J
Ethylene Dibromide (EDB)	**0.0066**	**U**	**ug/L**	**1**	0.021	0.0066	5/31/2019 02:06	J
Tetrachloro-m-xylene (S)	**117**		**%**	**1**	64-150		5/31/2019 02:06	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272013** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16AR** Date Collected: 05/15/19 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 15:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 15:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 15:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 15:34	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 15:34	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 15:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 15:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 15:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 15:34	J
Acetone	**4.9**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 15:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 15:34	J
Benzene	**1.6**		**ug/L**	**1**	1.0	0.16	5/28/2019 15:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 15:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 15:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 15:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 15:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:34	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 15:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 15:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 15:34	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 15:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 15:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 15:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 15:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 15:34	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272013** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-16AR** Date Collected: 05/15/19 14:03

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 15:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:34	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 15:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 15:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 15:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 15:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 15:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 15:34	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		5/28/2019 15:34	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 15:34	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 15:34	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**460**		**mg/L**	**5**	25	2.5	5/17/2019 03:11	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 03:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.8**		**mg/L**	**10**	0.10	0.080	5/20/2019 15:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 15:29	J
Barium	**31**		**ug/L**	**1**	4.0	1.0	5/28/2019 15:29	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 15:29	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:29	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:29	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 15:29	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 15:29	J
Iron	**1800**		**ug/L**	**1**	400	100	5/28/2019 15:29	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 15:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 15:29	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 15:29	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 15:29	J
Sodium	**8.1**		**mg/L**	**1**	1.4	0.35	5/28/2019 15:29	J
Vanadium	**1.6**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 15:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 15:29	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:00	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:00	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:10	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 03:43	J
Ethylene Dibromide (EDB)	**0.0066**	**U**	**ug/L**	**1**	0.021	0.0066	5/31/2019 03:43	J
Tetrachloro-m-xylene (S)	**107**		**%**	**1**	64-150		5/31/2019 03:43	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 16:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 16:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 16:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:04	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 16:04	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:04	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 16:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 16:04	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 16:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 16:04	J
Acetone	**2.5**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 16:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 16:04	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 16:04	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 16:04	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 16:04	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:04	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 16:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 16:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 16:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 16:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 16:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 16:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:04	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 16:04	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 16:04	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 16:04	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272014** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-16BR** Date Collected: 05/15/19 14:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**103**		**%**	**1**	86-123		5/28/2019 16:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**28**		**mg/L**	**1**	5.0	0.50	5/17/2019 02:50	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 02:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.29**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**73**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:27	J
Barium	**65**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:27	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:27	J
Cadmium	**1.7**	**I**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:27	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:27	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:27	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:27	J
Iron	**640**		**ug/L**	**1**	400	100	5/24/2019 12:27	J
Lead	**3.7**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 12:27	J
Nickel	**9.2**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 12:27	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:27	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:27	J
Sodium	**75**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:27	J
Vanadium	**7.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:18	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:27	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.35**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:04	J
Thallium	**0.069**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:04	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:13	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 17:56	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 17:56	J
Tetrachloro-m-xylene (S)	**93**		**%**	**1**	64-150		5/31/2019 17:56	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 16:33	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:33	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:33	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 16:33	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 16:33	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:33	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 16:33	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:33	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:33	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 16:33	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 16:33	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 16:33	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 16:33	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 16:33	J
Acetone	**5.2**		**ug/L**	**1**	5.0	2.1	5/28/2019 16:33	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 16:33	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:33	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 16:33	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 16:33	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 16:33	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:33	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 16:33	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:33	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:33	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:33	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 16:33	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:33	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 16:33	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 16:33	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:33	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:33	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 16:33	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:33	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 16:33	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 16:33	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 16:33	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 16:33	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 16:33	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:33	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 16:33	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 16:33	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 16:33	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 16:33	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 16:33	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 16:33	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 16:33	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 16:33	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/28/2019 16:33	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**170**		**mg/L**	**2**	10	1.0	5/17/2019 08:12	J
Nitrate (as N)	**7.1**		**mg/L**	**2**	1.0	0.10	5/17/2019 08:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.3**		**mg/L**	**5**	0.050	0.040	5/20/2019 16:34	G

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272015** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-17AR** Date Collected: 05/15/19 12:26

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**680**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272016** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-17BR** Date Collected: 05/15/19 13:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:52	J
Barium	**18**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:52	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:52	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:52	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:52	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:52	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:52	J
Iron	**430**		**ug/L**	**1**	400	100	5/24/2019 12:52	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:52	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:52	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:52	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:52	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:52	J
Vanadium	**3.0**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:21	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:52	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:19	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:19	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272016** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17BR** Date Collected: 05/15/19 13:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:17	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 01:06	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 01:06	J
Tetrachloro-m-xylene (S)	**90**		**%**	**1**	64-150		5/31/2019 01:06	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 17:03	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:03	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:03	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 17:03	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 17:03	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:03	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 17:03	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:03	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:03	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 17:03	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:03	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 17:03	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 17:03	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 17:03	J
Acetone	**6.1**		**ug/L**	**1**	5.0	2.1	5/28/2019 17:03	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 17:03	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:03	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 17:03	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 17:03	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 17:03	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:03	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 17:03	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:03	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:03	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:03	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:03	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:03	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272016** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-17BR** Date Collected: 05/15/19 13:18

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:03	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 17:03	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:03	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:03	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 17:03	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:03	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:03	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:03	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:03	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 17:03	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 17:03	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:03	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 17:03	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:03	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:03	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:03	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:03	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 17:03	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/28/2019 17:03	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 17:03	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		5/28/2019 17:03	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	5/17/2019 01:46	J
Nitrate (as N)	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	5/17/2019 01:46	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.24**		**mg/L**	**1**	0.010	0.0080	5/20/2019 16:35	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**82**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272017** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27A** Date Collected: 05/15/19 07:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:55	J
Barium	**12**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:55	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:55	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:55	J
Chromium	**3.6**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:55	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:55	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:55	J
Iron	**1100**		**ug/L**	**1**	400	100	5/24/2019 12:55	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:55	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:55	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:55	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:55	J
Sodium	**15**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:55	J
Vanadium	**12**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:36	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:55	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:23	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:23	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:20	J
SEMIVOLATILES								
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**120**		**mg/L**	**1**	10	10	5/21/2019 15:05	J
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 09:31	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 09:31	J
Tetrachloro-m-xylene (S)	**11**	**J4**	**%**	**1**	64-150		5/31/2019 09:31	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272017** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27A** Date Collected: 05/15/19 07:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 17:33	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:33	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:33	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 17:33	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 17:33	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:33	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 17:33	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:33	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:33	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 17:33	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 17:33	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 17:33	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 17:33	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 17:33	J
Acetone	**5.3**		**ug/L**	**1**	5.0	2.1	5/28/2019 17:33	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 17:33	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:33	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 17:33	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 17:33	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 17:33	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:33	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 17:33	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:33	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:33	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:33	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 17:33	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:33	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 17:33	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 17:33	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:33	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:33	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 17:33	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:33	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 17:33	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 17:33	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 17:33	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272017** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-27A** Date Collected: 05/15/19 07:39

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 17:33	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 17:33	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:33	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 17:33	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 17:33	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 17:33	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 17:33	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 17:33	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 17:33	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/28/2019 17:33	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 17:33	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 17:33	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**34**		**mg/L**	**1**	5.0	0.50	5/16/2019 17:50	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 17:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**5.5**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:36	G

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:59	J
Barium	**18**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:59	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:59	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:59	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:59	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:59	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:59	J
Iron	**390**	**I**	**ug/L**	**1**	400	100	5/24/2019 12:59	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:59	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:59	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:59	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:59	J
Sodium	**24**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:59	J
Vanadium	**3.7**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:40	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:59	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:28	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:28	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:23	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 11:41	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 11:41	J
Tetrachloro-m-xylene (S)	**89**		**%**	**1**	64-150		5/31/2019 11:41	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 18:02	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:02	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:02	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 18:02	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 18:02	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:02	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 18:02	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:02	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:02	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 18:02	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:02	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 18:02	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 18:02	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 18:02	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/28/2019 18:02	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 18:02	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:02	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 18:02	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 18:02	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 18:02	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:02	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 18:02	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:02	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:02	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:02	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:02	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:02	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:02	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 18:02	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:02	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:02	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 18:02	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:02	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:02	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:02	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:02	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 18:02	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 18:02	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:02	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 18:02	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:02	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:02	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:02	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:02	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 18:02	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/28/2019 18:02	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/28/2019 18:02	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/28/2019 18:02	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272018** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-27B** Date Collected: 05/15/19 08:28

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**44**		**mg/L**	**1**	5.0	0.50	5/16/2019 19:38	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 19:38	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.08**		**mg/L**	**1**	0.010	0.0080	5/20/2019 16:37	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**420**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:02	J
Barium	**35**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:02	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:02	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:02	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:02	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:02	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:02	J
Iron	**2100**		**ug/L**	**1**	400	100	5/24/2019 13:02	J
Lead	**5.5**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 13:02	J
Nickel	**8.3**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:02	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:02	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:02	J
Sodium	**43**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:02	J
Vanadium	**4.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:02	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:31	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:31	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:26	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 13:15	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 13:15	J
Tetrachloro-m-xylene (S)	**112**		**%**	**1**	64-150		5/31/2019 13:15	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 18:32	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:32	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:32	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 18:32	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 18:32	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:32	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 18:32	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:32	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:32	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 18:32	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 18:32	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 18:32	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 18:32	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 18:32	J
Acetone	**4.3**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 18:32	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 18:32	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:32	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 18:32	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 18:32	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 18:32	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:32	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 18:32	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:32	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:32	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:32	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 18:32	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:32	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 18:32	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 18:32	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:32	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:32	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 18:32	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:32	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 18:32	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 18:32	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 18:32	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 18:32	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 18:32	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:32	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 18:32	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 18:32	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 18:32	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 18:32	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 18:32	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 18:32	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 18:32	
Toluene-d8 (S)	**94**		**%**	**1**	77-119		5/28/2019 18:32	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/28/2019 18:32	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**180**		**mg/L**	**1**	5.0	0.50	5/16/2019 20:43	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 20:43	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**6.3**		**mg/L**	**10**	0.10	0.080	5/20/2019 16:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272019** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-28A** Date Collected: 05/15/19 09:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**130**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272020** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-28B** Date Collected: 05/15/19 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:06	J
Barium	**40**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:06	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:06	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:06	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:06	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:06	J
Copper	**4.7**	**I**	**ug/L**	**1**	16	4.0	5/24/2019 13:06	J
Iron	**1200**		**ug/L**	**1**	400	100	5/24/2019 13:06	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 13:06	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:06	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:06	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:06	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:06	J
Vanadium	**3.5**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:58	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:06	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:35	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:35	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:36	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272020** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28B** Date Collected: 05/15/19 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 13:49	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 13:49	J
Tetrachloro-m-xylene (S)	**77**		**%**	**1**	64-150		5/31/2019 13:49	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 19:02	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:02	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:02	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 19:02	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 19:02	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:02	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 19:02	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:02	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:02	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 19:02	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:02	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 19:02	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 19:02	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 19:02	J
Acetone	**4.3**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 19:02	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 19:02	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:02	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 19:02	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 19:02	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 19:02	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:02	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 19:02	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:02	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:02	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:02	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:02	J
Chloromethane	**3.2**		**ug/L**	**1**	1.0	0.21	5/28/2019 19:02	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:02	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 19:02	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272020** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-28B** Date Collected: 05/15/19 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:02	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:02	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 19:02	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:02	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:02	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:02	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:02	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 19:02	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 19:02	J
Vinyl Chloride	**0.20**	**U,J4**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:02	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 19:02	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:02	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:02	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:02	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:02	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 19:02	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 19:02	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 19:02	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/28/2019 19:02	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**48**	**J4**	**mg/L**	**1**	5.0	0.50	5/16/2019 21:04	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 21:04	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.22**		**mg/L**	**1**	0.010	0.0080	5/20/2019 16:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1400**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272021** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29A** Date Collected: 05/15/19 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:09	J
Barium	**34**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:09	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:09	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:09	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:09	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:09	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:09	J
Iron	**2000**		**ug/L**	**1**	400	100	5/24/2019 13:09	J
Lead	**4.4**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 13:09	J
Nickel	**8.9**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:09	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:09	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:09	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:09	J
Vanadium	**14**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:02	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:09	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.28**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:39	J
Thallium	**0.082**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:39	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 18:58	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0062**	**U**	**ug/L**	**1**	0.021	0.0062	5/31/2019 15:23	J
Ethylene Dibromide (EDB)	**0.0064**	**U**	**ug/L**	**1**	0.021	0.0064	5/31/2019 15:23	J
Tetrachloro-m-xylene (S)	**0**	**J4**	**%**	**1**	64-150		5/31/2019 15:23	
VOLATILES								

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272021** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29A** Date Collected: 05/15/19 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 19:31	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:31	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:31	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 19:31	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 19:31	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:31	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 19:31	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:31	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:31	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 19:31	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 19:31	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 19:31	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 19:31	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 19:31	J
Acetone	**3.8**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 19:31	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 19:31	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:31	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 19:31	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 19:31	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 19:31	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:31	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 19:31	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:31	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:31	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:31	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 19:31	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:31	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 19:31	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 19:31	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:31	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:31	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 19:31	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:31	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 19:31	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 19:31	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 19:31	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 19:31	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272021** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-29A** Date Collected: 05/15/19 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 19:31	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:31	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 19:31	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 19:31	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 19:31	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 19:31	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 19:31	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 19:31	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/28/2019 19:31	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/28/2019 19:31	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		5/28/2019 19:31	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**22**		**mg/L**	**1**	5.0	0.50	5/16/2019 22:30	J
Nitrate (as N)	**1.4**		**mg/L**	**1**	0.50	0.050	5/16/2019 22:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.12**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**150**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:13	J
Barium	**71**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:13	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:13	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:13	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:13	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:13	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:13	J
Iron	**2000**		**ug/L**	**1**	400	100	5/24/2019 13:13	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 13:13	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:13	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:13	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:13	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:13	J
Vanadium	**3.5**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:06	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:13	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 23:44	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 23:44	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:02	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 15:54	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 15:54	J
Tetrachloro-m-xylene (S)	**106**		**%**	**1**	64-150		5/31/2019 15:54	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 20:01	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:01	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 20:01	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 20:01	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:01	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 20:01	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:01	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:01	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 20:01	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:01	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 20:01	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 20:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 20:01	J
Acetone	**3.5**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 20:01	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 20:01	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:01	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 20:01	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 20:01	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 20:01	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:01	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 20:01	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:01	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:01	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:01	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:01	J
Chloromethane	**2.3**		**ug/L**	**1**	1.0	0.21	5/28/2019 20:01	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:01	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 20:01	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:01	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 20:01	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:01	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:01	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:01	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:01	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 20:01	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 20:01	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:01	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 20:01	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:01	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:01	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:01	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 20:01	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 20:01	
Toluene-d8 (S)	**96**		**%**	**1**	77-119		5/28/2019 20:01	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272022** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-MW-29B** Date Collected: 05/15/19 11:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 20:01	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**27**		**mg/L**	**1**	5.0	0.50	5/16/2019 22:52	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/16/2019 22:52	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.14**		**mg/L**	**1**	0.010	0.0080	5/20/2019 15:27	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1400**		**mg/L**	**1**	10	10	5/21/2019 15:05	J

Lab ID: **J1906272023** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-TripBlank-2** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 07:54	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 07:54	J
Tetrachloro-m-xylene (S)	**110**		**%**	**1**	64-150		5/31/2019 07:54	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 20:30	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:30	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 20:30	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 20:30	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:30	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272023** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-2** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 20:30	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:30	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:30	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 20:30	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 20:30	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 20:30	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 20:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 20:30	J
Acetone	**2.7**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 20:30	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 20:30	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:30	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 20:30	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 20:30	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 20:30	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:30	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 20:30	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:30	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:30	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:30	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 20:30	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:30	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 20:30	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 20:30	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:30	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 20:30	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:30	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 20:30	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 20:30	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 20:30	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 20:30	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 20:30	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:30	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 20:30	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 20:30	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 20:30	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 20:30	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 20:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 20:30	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 20:30	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272023** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-TripBlank-2** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/28/2019 20:30	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		5/28/2019 20:30	

Lab ID: **J1906272024** Date Received: 05/16/19 08:45 Matrix: Water
Sample ID: **19135-TripBlank-3** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 08:24	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 08:24	J
Tetrachloro-m-xylene (S)	**111**		**%**	**1**	64-150		5/31/2019 08:24	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 21:00	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:00	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:00	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 21:00	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 21:00	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:00	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 21:00	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:00	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:00	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 21:00	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:00	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 21:00	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 21:00	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 21:00	J
Acetone	**3.8**	**I**	**ug/L**	**1**	5.0	2.1	5/28/2019 21:00	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 21:00	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:00	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272024** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-3** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 21:00	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 21:00	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 21:00	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:00	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 21:00	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:00	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:00	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:00	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:00	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:00	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:00	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 21:00	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:00	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:00	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 21:00	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:00	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:00	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:00	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:00	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 21:00	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 21:00	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:00	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 21:00	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:00	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:00	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:00	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:00	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 21:00	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/28/2019 21:00	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 21:00	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		5/28/2019 21:00	

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272025** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-4** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water	Preparation Method: SW-846 8011 Analytical Method: SW-846 8011							
1,2-Dibromo-3-Chloropropane	**0.0063**	**U**	**ug/L**	**1**	0.021	0.0063	5/31/2019 08:58	J
Ethylene Dibromide (EDB)	**0.0065**	**U**	**ug/L**	**1**	0.021	0.0065	5/31/2019 08:58	J
Tetrachloro-m-xylene (S)	**98**		**%**	**1**	64-150		5/31/2019 08:58	
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/28/2019 21:30	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:30	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/28/2019 21:30	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/28/2019 21:30	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:30	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/28/2019 21:30	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:30	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:30	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/28/2019 21:30	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/28/2019 21:30	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/28/2019 21:30	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/28/2019 21:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/28/2019 21:30	J
Acetone	**5.6**		**ug/L**	**1**	5.0	2.1	5/28/2019 21:30	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/28/2019 21:30	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:30	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/28/2019 21:30	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/28/2019 21:30	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/28/2019 21:30	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:30	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/28/2019 21:30	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:30	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:30	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:30	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/28/2019 21:30	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:30	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/28/2019 21:30	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/28/2019 21:30	J

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ANALYTICAL RESULTS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906272025** Date Received: 05/16/19 08:45 Matrix: Water

Sample ID: **19135-TripBlank-4** Date Collected: 05/15/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:30	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/28/2019 21:30	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:30	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/28/2019 21:30	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/28/2019 21:30	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/28/2019 21:30	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/28/2019 21:30	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/28/2019 21:30	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:30	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/28/2019 21:30	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/28/2019 21:30	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/28/2019 21:30	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/28/2019 21:30	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/28/2019 21:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/28/2019 21:30	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	70-128		5/28/2019 21:30	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/28/2019 21:30	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		5/28/2019 21:30	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Method Blank Contamination
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/4976 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906272001, J1906272002, J1906272017, J1906272018

METHOD BLANK: 3097919

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3097920 3097921

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	109	109	90-110	0	10	
Nitrate (as N)	mg/L	2	1.9	1.8	93	92	90-110	1	10	

MATRIX SPIKE SAMPLE: 3098615 Original: J1906270001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	13	20	34	103	90-110	
Nitrate (as N)	mg/L	0.05	2	1.8	89	90-110	

QC Batch: WCAj/4981 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008, J1906272009, J1906272010,

METHOD BLANK: 3098625

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3098626 3098627

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	110	110	90-110	0	10	
Nitrate (as N)	mg/L	2	1.8	1.8	92	91	90-110	1	10	

MATRIX SPIKE SAMPLE: 3098628 Original: J1906272016

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	18	20	38	96	90-110	
Nitrate (as N)	mg/L	0.009	2	1.8	88	90-110	

MATRIX SPIKE SAMPLE: 3098629 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	48	20	65	86	90-110	
Nitrate (as N)	mg/L	0	2	1.8	91	90-110	

QC Batch: WCAj/5009 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004

METHOD BLANK: 3100491

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3100492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	105	85-115	

SAMPLE DUPLICATE: 3100493 Original: J1906268001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	54	59	9	10	

QC Batch: DGMj/3421 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3101158

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	53	105	80-120	
Thallium	ug/L	50	49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101160 3101161 Original: J1906329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.023	50	51	52	103	104	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101160 3101161 Original: J1906329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Thallium	ug/L	0.019	50	47	48	95	97	75-125	2	20	

QC Batch: DGMj/3422 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30
Associated Lab Samples: J1906272010, J1906272011, J1906272012, J1906272013, J1906272014, J1906272015, J1906272016, J1906272017,

METHOD BLANK: 3101162

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	56	112	80-120	
Thallium	ug/L	50	52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101164 3101165 Original: J1906272010

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.18	50	54	54	107	107	75-125	0	20	
Thallium	ug/L	0.038	50	53	52	106	105	75-125	1	20	

QC Batch: WCAg/6516 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906272001

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3101582

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.52	104	90-110	

LABORATORY CONTROL SAMPLE: 3101584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101585 3101586 Original: J1906176002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	16	8	22	22	80	79	90-110	0	10	

QC Batch: WCAg/6517 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008, J1906272009,

METHOD BLANK: 3101591

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3101592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.53	106	90-110	

LABORATORY CONTROL SAMPLE: 3101593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101594 3101595 Original: J1906272002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	8.2	8	16	16	100	98	90-110	1	10	

QC Batch: WCAg/6518 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906272012, J1906272013, J1906272014, J1906272015, J1906272016, J1906272017, J1906272018, J1906272019,

METHOD BLANK: 3101601

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.53	106	90-110	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3101603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.20	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101604 3101605 Original: J1906272012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.21	0.4	0.64	0.63	107	104	90-110	1	10	

QC Batch: WCAg/6519 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1906272022

METHOD BLANK: 3101606

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3101607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.54	108	90-110	

LABORATORY CONTROL SAMPLE: 3101608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.21	104	90-110	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101609 3101610 Original: J1906272022

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.14	0.4	0.55	0.54	103	100	90-110	3	10	

QC Batch: WCAj/5014 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1906272005, J1906272006, J1906272007, J1906272008, J1906272009, J1906272010, J1906272012, J1906272015,

METHOD BLANK: 3102077

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3102078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	340	115	85-115	

SAMPLE DUPLICATE: 3102080 Original: J1906272017

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	120	110	10	10	

QC Batch: WCAj/5025 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1906272011, J1906272013, J1906272014

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103402

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3103403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	330	112	85-115	

SAMPLE DUPLICATE: 3103404 Original: J1906272011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	180	170	5	10	

QC Batch: DGMj/3436 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3103529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Vanadium	ug/L	1.2	1.0	I
Zinc	ug/L	50	50	U

LABORATORY CONTROL SAMPLE: 3103530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	97	80-120	
Arsenic	ug/L	200	200	100	80-120	
Barium	ug/L	20	20	102	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	101	80-120	
Cobalt	ug/L	40	41	103	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1900	94	80-120	
Sodium	mg/L	7	7.5	108	80-120	
Nickel	ug/L	120	120	101	80-120	
Lead	ug/L	60	60	100	80-120	
Selenium	ug/L	800	800	100	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103531 3103532 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	200	190	99	97	75-125	2	20	
Arsenic	ug/L	2.8	200	200	200	101	102	75-125	1	20	
Barium	ug/L	14	20	35	34	106	104	75-125	1	20	
Beryllium	ug/L	0.1	10	10	9.9	101	99	75-125	2	20	
Cadmium	ug/L	0	20	20	20	103	101	75-125	2	20	
Cobalt	ug/L	0.3	40	42	42	106	104	75-125	2	20	
Chromium	ug/L	0	40	39	39	98	99	75-125	1	20	
Copper	ug/L	0	80	77	76	97	95	75-125	2	20	
Iron	ug/L	1500	2000	3500	3500	100	98	75-125	1	20	
Sodium	mg/L	7.6	7	15	15	111	108	75-125	1	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103531 3103532 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Nickel	ug/L	2.4	120	130	130	112	105	75-125	6	20	
Lead	ug/L	2.5	60	66	64	110	107	75-125	2	20	
Selenium	ug/L	0	800	820	810	103	101	75-125	2	20	
Vanadium	ug/L	1.1	20	22	22	107	103	75-125	4	20	
Zinc	ug/L	3.6	1000	1000	1000	104	102	75-125	2	20	

QC Batch: DGMj/3437 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906272015, J1906272016, J1906272017, J1906272018, J1906272019, J1906272020, J1906272021, J1906272022

METHOD BLANK: 3103534

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	2.2	1.0	I

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3103535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	94	80-120	
Arsenic	ug/L	200	180	89	80-120	
Barium	ug/L	20	19	94	80-120	
Beryllium	ug/L	10	8.7	87	80-120	
Cadmium	ug/L	20	19	94	80-120	
Cobalt	ug/L	40	38	94	80-120	
Chromium	ug/L	40	36	90	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1800	89	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	110	94	80-120	
Lead	ug/L	60	57	95	80-120	
Selenium	ug/L	800	730	91	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	910	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103536 3103537 Original: J1906272015

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	93	95	75-125	1	20	
Arsenic	ug/L	0	200	190	190	94	95	75-125	1	20	
Barium	ug/L	65	20	82	84	89	97	75-125	2	20	
Beryllium	ug/L	0	10	9.3	9.5	93	95	75-125	2	20	
Cadmium	ug/L	1.7	20	20	21	93	95	75-125	1	20	
Cobalt	ug/L	0.7	40	38	38	94	95	75-125	1	20	
Chromium	ug/L	1	40	38	40	94	100	75-125	6	20	
Copper	ug/L	2	80	72	75	90	94	75-125	4	20	
Iron	ug/L	640	2000	2500	2500	93	95	75-125	2	20	
Sodium	mg/L	75	7	80	82	79	102	75-125	2	20	
Nickel	ug/L	9.2	120	120	120	93	95	75-125	2	20	
Lead	ug/L	3.7	60	58	57	90	89	75-125	1	20	
Selenium	ug/L	0	800	750	760	94	95	75-125	1	20	
Vanadium	ug/L	7.7	20	25	25	86	88	75-125	2	20	
Zinc	ug/L	10	1000	950	960	95	96	75-125	2	20	

QC Batch: DGMj/3454 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Associated Lab Samples: J1906272001, J1906272002

METHOD BLANK: 3106506

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	1.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106508 3106509 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.013	2	1.4	1.4	69	71	80-120	3	20	

QC Batch: DGMj/3455 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45

Associated Lab Samples: J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008, J1906272009, J1906272010,

METHOD BLANK: 3106516

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3106517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2	1.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106518 3106519 Original: J1906272003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0	2	2.0	2.1	100	105	80-120	5	20	

QC Batch: DGMj/3456 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45
Associated Lab Samples: J1906272020, J1906272021, J1906272022

METHOD BLANK: 3106520

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106521

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106522 3106523 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.0037	2	2.1	2.1	104	105	80-120	1	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: MSVj/3625 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/24/2019 10:13

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3107510

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3107510

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	106	70-128	
Toluene-d8 (S)	%	106	77-119	
Bromofluorobenzene (S)	%	112	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3107511 3107512

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	18	16	90	79		14		
Vinyl Chloride	ug/L	20	20	16	99	81	70-130	19	20	
Bromomethane	ug/L	20	20	10	102	52		65		
Chloroethane	ug/L	20	20	17	98	86		14		
Trichlorofluoromethane	ug/L	20	19	17	95	87		10		
Acetone	ug/L	20	14	16	71	79		10		
1,1-Dichloroethylene	ug/L	20	20	18	100	89	70-130	12	20	
Iodomethane (Methyl Iodide)	ug/L	20	15	13	73	63		14		
Acrylonitrile	ug/L	20	16	15	78	75		3		
Methylene Chloride	ug/L	20	20	21	99	103		4		
Carbon Disulfide	ug/L	20	19	18	96	88		8		
trans-1,2-Dichloroethylene	ug/L	20	19	17	97	87		11		
1,1-Dichloroethane	ug/L	20	20	17	98	85		14		
Vinyl Acetate	ug/L	20	17	31	83	155		61		
2-Butanone (MEK)	ug/L	20	15	18	74	88		17		
cis-1,2-Dichloroethylene	ug/L	20	19	17	97	87	70-130	11	20	
Bromochloromethane	ug/L	20	21	19	107	97		10		
Chloroform	ug/L	20	20	17	98	87	70-130	12	20	
1,2-Dichloroethane	ug/L	20	20	17	98	85		14		
1,1,1-Trichloroethane	ug/L	20	19	16	95	82		14		
Carbon Tetrachloride	ug/L	20	20	18	99	88		12		
Benzene	ug/L	20	19	18	97	89	70-130	9	20	
Dibromomethane	ug/L	20	18	16	89	81		10		
1,2-Dichloropropane	ug/L	20	20	18	98	89		10		
Trichloroethene	ug/L	20	19	16	94	81	70-130	14	20	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3107511 3107512

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	20	20	18	98	89		10		
cis-1,3-Dichloropropene	ug/L	20	18	15	89	77		14		
4-Methyl-2-pentanone (MIBK)	ug/L	20	14	16	72	78		9		
trans-1,3-Dichloropropylene	ug/L	20	17	15	85	77		11		
1,1,2-Trichloroethane	ug/L	20	18	16	90	79		13		
Toluene	ug/L	20	19	18	97	88	70-130	10	20	
2-Hexanone	ug/L	20	15	18	74	89		18		
Dibromochloromethane	ug/L	20	19	18	95	89		7		
Tetrachloroethylene (PCE)	ug/L	20	19	17	95	86	70-130	10	20	
1,1,1,2-Tetrachloroethane	ug/L	20	20	18	103	89		15		
Chlorobenzene	ug/L	20	20	18	98	91	70-130	8	20	
Ethylbenzene	ug/L	20	21	18	104	92	70-130	13	20	
Bromoform	ug/L	20	17	17	85	83		3		
Styrene	ug/L	20	19	17	96	86		11		
1,1,2,2-Tetrachloroethane	ug/L	20	18	17	88	86		2		
1,2,3-Trichloropropane	ug/L	20	16	16	81	80		2		
1,4-Dichlorobenzene	ug/L	20	21	19	104	95		8		
1,2-Dichlorobenzene	ug/L	20	22	20	108	99	70-130	9	20	
Xylene (Total)	ug/L	60	62	56	104	93	70-130	11	20	
1,2-Dichloroethane-d4 (S)	%				112	114	70-128	2		
Toluene-d8 (S)	%				105	105	77-119	0		
Bromofluorobenzene (S)	%				105	107	86-123	2		

MATRIX SPIKE SAMPLE: 3107513 Original: J1906272012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	12	59		
Vinyl Chloride	ug/L	0	20	15	73	70-130	
Bromomethane	ug/L	0	20	6.2	31		
Chloroethane	ug/L	0	20	16	78		
Trichlorofluoromethane	ug/L	0	20	19	93		
Acetone	ug/L	0	20	19	94		
1,1-Dichloroethylene	ug/L	0	20	20	99	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	8.7	43		
Acrylonitrile	ug/L	0	20	20	98		
Methylene Chloride	ug/L	0	20	20	98		
Carbon Disulfide	ug/L	0	20	20	99		
trans-1,2-Dichloroethylene	ug/L	0	20	20	98		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3107513 Original: J1906272012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	0	20	22	109		
Vinyl Acetate	ug/L	0	20	21	107		
2-Butanone (MEK)	ug/L	0	20	20	102		
cis-1,2-Dichloroethylene	ug/L	0	20	21	105	70-130	
Bromochloromethane	ug/L	0	20	25	123		
Chloroform	ug/L	0	20	21	106	70-130	
1,2-Dichloroethane	ug/L	0	20	21	105		
1,1,1-Trichloroethane	ug/L	0	20	20	100		
Carbon Tetrachloride	ug/L	0	20	21	105		
Benzene	ug/L	0	20	22	111	70-130	
Dibromomethane	ug/L	0	20	22	109		
1,2-Dichloropropane	ug/L	0	20	22	111		
Trichloroethene	ug/L	0	20	20	102	70-130	
Bromodichloromethane	ug/L	0	20	20	101		
cis-1,3-Dichloropropene	ug/L	0	20	16	78		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	19	97		
trans-1,3-Dichloropropylene	ug/L	0	20	16	80		
1,1,2-Trichloroethane	ug/L	0	20	21	107		
Toluene	ug/L	0	20	22	109	70-130	
2-Hexanone	ug/L	0	20	19	97		
Dibromochloromethane	ug/L	0	20	21	104		
Tetrachloroethylene (PCE)	ug/L	0	20	20	99	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	22	109		
Chlorobenzene	ug/L	0	20	22	109	70-130	
Ethylbenzene	ug/L	0	20	21	107	70-130	
Bromoform	ug/L	0	20	19	95		
Styrene	ug/L	0	20	19	93		
1,1,2,2-Tetrachloroethane	ug/L	0	20	22	108		
1,2,3-Trichloropropane	ug/L	0	20	18	90		
1,4-Dichlorobenzene	ug/L	0	20	20	100		
1,2-Dichlorobenzene	ug/L	0	20	21	106	70-130	
Xylene (Total)	ug/L	0	60	64	106	70-130	
1,2-Dichloroethane-d4 (S)	%	110			88	70-128	
Toluene-d8 (S)	%	106			98	77-119	
Bromofluorobenzene (S)	%	112			99	86-123	

QC Batch: MSVj/3631 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/28/2019 11:06

Associated Lab Samples: J1906272013, J1906272014, J1906272015, J1906272016, J1906272017, J1906272018, J1906272019, J1906272020,

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3108512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3108512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	88	70-128	
Toluene-d8 (S)	%	98	77-119	
Bromofluorobenzene (S)	%	107	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3108513 3108514

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	17	9.9	86	49		54		
Vinyl Chloride	ug/L	20	18	12	91	58	70-130	45	20	
Bromomethane	ug/L	20	19	3.6	95	18		135		
Chloroethane	ug/L	20	17	14	83	69		19		
Trichlorofluoromethane	ug/L	20	20	16	100	82		19		
Acetone	ug/L	20	17	15	85	76		12		
1,1-Dichloroethylene	ug/L	20	22	18	108	88	70-130	21	20	
Iodomethane (Methyl Iodide)	ug/L	20	30	3.4	148	17		158		
Acrylonitrile	ug/L	20	21	17	104	87		18		
Methylene Chloride	ug/L	20	25	20	125	98		24		
Carbon Disulfide	ug/L	20	23	17	113	87		26		
trans-1,2-Dichloroethylene	ug/L	20	22	17	108	84		25		
1,1-Dichloroethane	ug/L	20	22	18	111	89		22		
Vinyl Acetate	ug/L	20	26	29	128	144		12		
2-Butanone (MEK)	ug/L	20	23	21	114	104		9		
cis-1,2-Dichloroethylene	ug/L	20	23	18	117	92	70-130	23	20	
Bromochloromethane	ug/L	20	24	20	121	102		17		
Chloroform	ug/L	20	22	17	108	85	70-130	23	20	
1,2-Dichloroethane	ug/L	20	21	17	106	84		23		
1,1,1-Trichloroethane	ug/L	20	21	16	103	81		23		
Carbon Tetrachloride	ug/L	20	22	17	111	87		24		
Benzene	ug/L	20	23	18	115	92	70-130	23	20	
Dibromomethane	ug/L	20	23	18	115	89		26		
1,2-Dichloropropane	ug/L	20	23	18	113	91		21		
Trichloroethene	ug/L	20	22	17	108	84	70-130	25	20	
Bromodichloromethane	ug/L	20	21	16	106	81		26		
cis-1,3-Dichloropropene	ug/L	20	25	18	124	92		30		
4-Methyl-2-pentanone (MIBK)	ug/L	20	21	18	104	92		13		
trans-1,3-Dichloropropylene	ug/L	20	25	18	125	92		30		
1,1,2-Trichloroethane	ug/L	20	22	17	108	85		24		
Toluene	ug/L	20	22	18	110	89	70-130	21	20	
2-Hexanone	ug/L	20	21	18	104	91		13		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3108513 3108514

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Dibromochloromethane	ug/L	20	21	16	105	81		25		
Tetrachloroethylene (PCE)	ug/L	20	22	18	111	89	70-130	22	20	
1,1,1,2-Tetrachloroethane	ug/L	20	22	18	111	89		22		
Chlorobenzene	ug/L	20	22	18	112	89	70-130	22	20	
Ethylbenzene	ug/L	20	22	18	110	88	70-130	22	20	
Bromoform	ug/L	20	19	15	96	76		23		
Styrene	ug/L	20	21	17	105	87		19		
1,1,2,2-Tetrachloroethane	ug/L	20	22	17	108	86		22		
1,2,3-Trichloropropane	ug/L	20	22	17	108	85		23		
1,4-Dichlorobenzene	ug/L	20	23	17	115	86		29		
1,2-Dichlorobenzene	ug/L	20	23	18	113	91	70-130	22	20	
Xylene (Total)	ug/L	60	66	53	111	89	70-130	22	20	
1,2-Dichloroethane-d4 (S)	%				87	86	70-128	1		
Toluene-d8 (S)	%				97	98	77-119	1		
Bromofluorobenzene (S)	%				97	100	86-123	3		

MATRIX SPIKE SAMPLE: 3108515 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	3.2	20	10	34		
Vinyl Chloride	ug/L	0	20	12	58	70-130	
Bromomethane	ug/L	0	20	5.8	29		
Chloroethane	ug/L	0	20	12	59		
Trichlorofluoromethane	ug/L	0	20	14	72		
Acetone	ug/L	4.3	20	15	51		
1,1-Dichloroethylene	ug/L	0	20	15	76	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	5.0	25		
Acrylonitrile	ug/L	0	20	16	80		
Methylene Chloride	ug/L	0	20	18	92		
Carbon Disulfide	ug/L	0	20	16	82		
trans-1,2-Dichloroethylene	ug/L	0	20	15	75		
1,1-Dichloroethane	ug/L	0	20	16	80		
Vinyl Acetate	ug/L	0	20	26	128		
2-Butanone (MEK)	ug/L	0	20	19	95		
cis-1,2-Dichloroethylene	ug/L	0	20	17	86	70-130	
Bromochloromethane	ug/L	0	20	17	85		
Chloroform	ug/L	0	20	15	77	70-130	
1,2-Dichloroethane	ug/L	0	20	15	76		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3108515 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	0	20	15	73		
Carbon Tetrachloride	ug/L	0	20	16	78		
Benzene	ug/L	0	20	17	84	70-130	
Dibromomethane	ug/L	0	20	16	81		
1,2-Dichloropropane	ug/L	0	20	16	81		
Trichloroethene	ug/L	0	20	15	74	70-130	
Bromodichloromethane	ug/L	0	20	15	75		
cis-1,3-Dichloropropene	ug/L	0	20	16	81		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	17	83		
trans-1,3-Dichloropropylene	ug/L	0	20	16	82		
1,1,2-Trichloroethane	ug/L	0	20	15	77		
Toluene	ug/L	0	20	16	78	70-130	
2-Hexanone	ug/L	0	20	16	82		
Dibromochloromethane	ug/L	0	20	15	75		
Tetrachloroethylene (PCE)	ug/L	0	20	16	78	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	15	77		
Chlorobenzene	ug/L	0	20	16	79	70-130	
Ethylbenzene	ug/L	0	20	15	76	70-130	
Bromoform	ug/L	0	20	13	67		
Styrene	ug/L	0	20	15	75		
1,1,2,2-Tetrachloroethane	ug/L	0	20	16	78		
1,2,3-Trichloropropane	ug/L	0	20	15	75		
1,4-Dichlorobenzene	ug/L	0	20	15	77		
1,2-Dichlorobenzene	ug/L	0	20	16	80	70-130	
Xylene (Total)	ug/L	0	60	47	78	70-130	
1,2-Dichloroethane-d4 (S)	%	87			89	70-128	
Toluene-d8 (S)	%	97			96	77-119	
Bromofluorobenzene (S)	%	106			98	86-123	

QC Batch: EXTj/3477 Analysis Method: SW-846 8011

QC Batch Method: SW-846 8011 Prepared: 05/29/2019 12:00

Associated Lab Samples: J1906272009, J1906272010, J1906272011, J1906272012, J1906272013, J1906272014, J1906272016

METHOD BLANK: 3109406

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.0062	0.0062	U
1,2-Dibromo-3-Chloropropane	ug/L	0.0060	0.0060	U
Tetrachloro-m-xylene (S)	%	97	64-150	

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3109407 3109408

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.25	0.19	0.21	76	83	70-130	9	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.18	0.19	73	75	70-130	3	30	
Tetrachloro-m-xylene (S)	%				92	96	64-150	5		

MATRIX SPIKE SAMPLE: 3109410 Original: A1904082004

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.26	0.22	85	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.26	0.21	81	70-130	
Tetrachloro-m-xylene (S)	%	44			26	64-150	J4

QC Batch: EXTj/3478 Analysis Method: SW-846 8011

QC Batch Method: SW-846 8011 Prepared: 05/28/2019 17:30

Associated Lab Samples: J1906272001, J1906272002, J1906272003, J1906272004, J1906272005, J1906272006, J1906272007, J1906272008,

METHOD BLANK: 3109596

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.0062	0.0062	U
1,2-Dibromo-3-Chloropropane	ug/L	0.0060	0.0060	U
Tetrachloro-m-xylene (S)	%	101	64-150	

LABORATORY CONTROL SAMPLE & LCSD: 3109597 3109598

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
SEMIVOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.25	0.21	0.22	85	86	70-130	1	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.25	0.22	0.21	86	84	70-130	2	30	
Tetrachloro-m-xylene (S)	%				106	101	64-150	5		

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QUALITY CONTROL DATA

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3109600 Original: A1904082002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.26	0.23	89	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.26	0.22	87	70-130	
Tetrachloro-m-xylene (S)	%	86			92	64-150	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result
V	Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272001	19135-MW-1A			EPA 300.0	WCAj/4976
J1906272002	19135-MW-1B			EPA 300.0	WCAj/4976
J1906272017	19135-MW-27A			EPA 300.0	WCAj/4976
J1906272018	19135-MW-27B			EPA 300.0	WCAj/4976
J1906272003	19135-MW-2A			EPA 300.0	WCAj/4981
J1906272004	19135-MW-2B			EPA 300.0	WCAj/4981
J1906272005	19135-MW-3A			EPA 300.0	WCAj/4981
J1906272006	19135-MW-3B			EPA 300.0	WCAj/4981
J1906272007	19135-MW-4A			EPA 300.0	WCAj/4981
J1906272008	19135-MW-4B			EPA 300.0	WCAj/4981
J1906272009	19135-MW-5A			EPA 300.0	WCAj/4981
J1906272010	19135-MW-5B			EPA 300.0	WCAj/4981
J1906272011	19135-MW-6A			EPA 300.0	WCAj/4981
J1906272012	19135-MW-6B			EPA 300.0	WCAj/4981
J1906272013	19135-MW-16AR			EPA 300.0	WCAj/4981
J1906272014	19135-MW-16BR			EPA 300.0	WCAj/4981
J1906272015	19135-MW-17AR			EPA 300.0	WCAj/4981
J1906272016	19135-MW-17BR			EPA 300.0	WCAj/4981
J1906272019	19135-MW-28A			EPA 300.0	WCAj/4981
J1906272020	19135-MW-28B			EPA 300.0	WCAj/4981
J1906272021	19135-MW-29A			EPA 300.0	WCAj/4981
J1906272022	19135-MW-29B			EPA 300.0	WCAj/4981
J1906272001	19135-MW-1A			SM 2540 C	WCAj/5009
J1906272002	19135-MW-1B			SM 2540 C	WCAj/5009
J1906272003	19135-MW-2A			SM 2540 C	WCAj/5009
J1906272004	19135-MW-2B			SM 2540 C	WCAj/5009
J1906272001	19135-MW-1A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272002	19135-MW-1B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272003	19135-MW-2A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272004	19135-MW-2B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272005	19135-MW-3A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272006	19135-MW-3B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272007	19135-MW-4A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272008	19135-MW-4B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272009	19135-MW-5A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906272010	19135-MW-5B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272011	19135-MW-6A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272012	19135-MW-6B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272013	19135-MW-16AR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272014	19135-MW-16BR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272015	19135-MW-17AR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272016	19135-MW-17BR	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272017	19135-MW-27A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272018	19135-MW-27B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272019	19135-MW-28A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272020	19135-MW-28B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272021	19135-MW-29A	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272022	19135-MW-29B	SW-846 3010A	DGMj/3422	SW-846 6020	ICMj/1887
J1906272001	19135-MW-1A			EPA 350.1	WCAg/6516
J1906272002	19135-MW-1B			EPA 350.1	WCAg/6517
J1906272003	19135-MW-2A			EPA 350.1	WCAg/6517
J1906272004	19135-MW-2B			EPA 350.1	WCAg/6517
J1906272005	19135-MW-3A			EPA 350.1	WCAg/6517
J1906272006	19135-MW-3B			EPA 350.1	WCAg/6517
J1906272007	19135-MW-4A			EPA 350.1	WCAg/6517
J1906272008	19135-MW-4B			EPA 350.1	WCAg/6517
J1906272009	19135-MW-5A			EPA 350.1	WCAg/6517
J1906272010	19135-MW-5B			EPA 350.1	WCAg/6517
J1906272011	19135-MW-6A			EPA 350.1	WCAg/6517
J1906272012	19135-MW-6B			EPA 350.1	WCAg/6518

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272013	19135-MW-16AR			EPA 350.1	WCAg/6518
J1906272014	19135-MW-16BR			EPA 350.1	WCAg/6518
J1906272015	19135-MW-17AR			EPA 350.1	WCAg/6518
J1906272016	19135-MW-17BR			EPA 350.1	WCAg/6518
J1906272017	19135-MW-27A			EPA 350.1	WCAg/6518
J1906272018	19135-MW-27B			EPA 350.1	WCAg/6518
J1906272019	19135-MW-28A			EPA 350.1	WCAg/6518
J1906272020	19135-MW-28B			EPA 350.1	WCAg/6518
J1906272021	19135-MW-29A			EPA 350.1	WCAg/6518
J1906272022	19135-MW-29B			EPA 350.1	WCAg/6519
J1906272005	19135-MW-3A			SM 2540 C	WCAj/5014
J1906272006	19135-MW-3B			SM 2540 C	WCAj/5014
J1906272007	19135-MW-4A			SM 2540 C	WCAj/5014
J1906272008	19135-MW-4B			SM 2540 C	WCAj/5014
J1906272009	19135-MW-5A			SM 2540 C	WCAj/5014
J1906272010	19135-MW-5B			SM 2540 C	WCAj/5014
J1906272012	19135-MW-6B			SM 2540 C	WCAj/5014
J1906272015	19135-MW-17AR			SM 2540 C	WCAj/5014
J1906272016	19135-MW-17BR			SM 2540 C	WCAj/5014
J1906272017	19135-MW-27A			SM 2540 C	WCAj/5014
J1906272018	19135-MW-27B			SM 2540 C	WCAj/5014
J1906272019	19135-MW-28A			SM 2540 C	WCAj/5014
J1906272020	19135-MW-28B			SM 2540 C	WCAj/5014
J1906272021	19135-MW-29A			SM 2540 C	WCAj/5014
J1906272022	19135-MW-29B			SM 2540 C	WCAj/5014
J1906272011	19135-MW-6A			SM 2540 C	WCAj/5025
J1906272013	19135-MW-16AR			SM 2540 C	WCAj/5025
J1906272014	19135-MW-16BR			SM 2540 C	WCAj/5025
J1906272001	19135-MW-1A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272002	19135-MW-1B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272003	19135-MW-2A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272004	19135-MW-2B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272005	19135-MW-3A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272006	19135-MW-3B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272007	19135-MW-4A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272008	19135-MW-4B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272009	19135-MW-5A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272010	19135-MW-5B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272011	19135-MW-6A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272012	19135-MW-6B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272013	19135-MW-16AR	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272014	19135-MW-16BR	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906272015	19135-MW-17AR	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272016	19135-MW-17BR	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272017	19135-MW-27A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272018	19135-MW-27B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272019	19135-MW-28A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272020	19135-MW-28B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272021	19135-MW-29A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272022	19135-MW-29B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906272001	19135-MW-1A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906272002	19135-MW-1B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906272003	19135-MW-2A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272004	19135-MW-2B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272005	19135-MW-3A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272006	19135-MW-3B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272007	19135-MW-4A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272008	19135-MW-4B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272009	19135-MW-5A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272010	19135-MW-5B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272011	19135-MW-6A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272012	19135-MW-6B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272013	19135-MW-16AR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272014	19135-MW-16BR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272015	19135-MW-17AR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272016	19135-MW-17BR	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272017	19135-MW-27A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272018	19135-MW-27B	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272019	19135-MW-28A	SW-846 7470A	DGMj/3455	SW-846 7470A	CVAj/1527
J1906272020	19135-MW-28B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906272021	19135-MW-29A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906272022	19135-MW-29B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906272001	19135-MW-1A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272002	19135-MW-1B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272003	19135-MW-2A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272004	19135-MW-2B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272005	19135-MW-3A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272006	19135-MW-3B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272007	19135-MW-4A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272008	19135-MW-4B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272009	19135-MW-5A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272010	19135-MW-5B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272011	19135-MW-6A	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272012	19135-MW-6B	SW-846 5030B	MSVj/3625	SW-846 8260B	MSVj/3626
J1906272013	19135-MW-16AR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272014	19135-MW-16BR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272015	19135-MW-17AR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272016	19135-MW-17BR	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272017	19135-MW-27A	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272018	19135-MW-27B	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272019	19135-MW-28A	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632

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Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906272 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906272020	19135-MW-28B	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272021	19135-MW-29A	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272022	19135-MW-29B	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272023	19135-TripBlank-2	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272024	19135-TripBlank-3	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272025	19135-TripBlank-4	SW-846 5030B	MSVj/3631	SW-846 8260B	MSVj/3632
J1906272009	19135-MW-5A	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272010	19135-MW-5B	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272011	19135-MW-6A	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272012	19135-MW-6B	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272013	19135-MW-16AR	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272014	19135-MW-16BR	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272016	19135-MW-17BR	SW-846 8011	EXTj/3477	SW-846 8011	GCSj/2755
J1906272001	19135-MW-1A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272002	19135-MW-1B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272003	19135-MW-2A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272004	19135-MW-2B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272005	19135-MW-3A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272006	19135-MW-3B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272007	19135-MW-4A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272008	19135-MW-4B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272015	19135-MW-17AR	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272017	19135-MW-27A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272018	19135-MW-27B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272019	19135-MW-28A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272020	19135-MW-28B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272021	19135-MW-29A	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272022	19135-MW-29B	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272023	19135-TripBlank-2	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272024	19135-TripBlank-3	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767
J1906272025	19135-TripBlank-4	SW-846 8011	EXTj/3478	SW-846 8011	GCSj/2767

CERTIFICATE OF ANALYSIS

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.8
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.6

97

* J 1 9 0 6 2 7 2 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Nic Stapley & Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	1 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF
1501 Omni Way
St. Cloud, FL

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
									HCL	HNO3	Ice	H2SO4							
19135-MW-1A		G	5/15/19	0740	GW	6			3	1	1	1							001
19135-MW-1B				0802															002
19135-MW-2A				0852															003
19135-MW-2B				0908															004
19135-MW-3A				1018															005
19135-MW-3B				0956															006
19135-MW-4A				1136															007
19135-MW-4B				1110															008
19135-MW-5A				1254															009
19135-MW-5B		G	5/15/19	1232	GW	6			3	1	1	1							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	5/15/19	1600	FedEx	5/15/19	1600
2	FedEx	5-16-19	8:45	[signature]	5-16-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Monday, June 03, 2019 2:05:21 PM
Page 100 of 103

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, Fl
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 8

7.1597

J1906272

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6142
FAX:	
Contact:	Kirk Wills
Sampled By:	Nick Stapley + Daniel Montiel
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	2 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF, 1501 Omni Way, St Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE: 40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED: App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
								HCL	HNO3	Ice	H2SO4							
19135-MW-6A		G	5/15/19	1410	GW	6		3	1	1	1							011
19135-MW-6B				1346														012
19135-MW-16AR				1403														013
19135-MW-16BR				1418														014
19135-MW-17AR				1236														015
19135-MW-17BR				1318														016
19135-MW-37A				0739														017
19135-MW-37B				0828														018
19135-MW-38A				0915														019
19135-MW-38B		G	5/15/19	0950	GW	6		3	1	1	1							020

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		5/15/19	1600	FedEx	5/15/19	1606
2	FedEx	5-16-19	8:45		5-16-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Monday, June 03, 2019 2:05:21 PM

J1906272

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Waste Connections, Inc.
Address: 5135 Madison Avenue
Tampa, Florida 33619
Phone: 813-468-6142
FAX:
Contact: Kirk Wills
Sampled By: Nel Stapley & Daniel Montiel
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 3 of 3

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF
1501 Omni Way.
St Cloud, FL

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
									HCL	HNO3	Ice	H2SO4							
19135-MW-39A		G	5/15/19	1040	GW	6			3	1	1	1							021
19135-MW-39B		G	5/15/19	1108	GW	6			3	1	1	1							022
19135-Trip Blank-2	Encaclr with 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B	-	-	-	DI H2O	3			3										023
19135-Trip Blank-3	Encaclr with 5A, 5B, CA, CB 16BR, 17BR, 17AR	-	-	-	↓	3			3										024
19135-Trip Blank-4	Encaclr with 29A, 29B, 28A, 28B, 27A, 27B, 16AR	-	-	-	DI H2O	3			3										025

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014 Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	5/15/19	1600	FedEx	5/15/19	1600
2	[signature]	5/16/19	8:45	[signature]	5-16-19	8:45
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Monday, June 03, 2019 2:05:21 PM
Page 102 of 103

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J-E-D Landfill

Date/Time Rcvd: 5-16-19 8:45 Log-In request number: J1906272

Received by: BA Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☒ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓	✓	
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)		✓	
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

air bubbles ~ 6mm or less. -003 the metals lid was loose some of the sample was lost (not much)

Trip Blanks labeled 2, 6, 10. Labeled 2, 3, and 4.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: Samples were extracted prior to the hold date and were subsequently analyzed as soon as possible post extraction. All method guidelines were met. No further corrective action was required.

III. Method

Analysis: SW-846 8011

Preparation: SW-846 8011

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The control criteria for Tetrachloro-m-xylene in J1906272017, 002, and 021 are not applicable. As recorded in the extraction logbook, the samples formed emulsions in the solvent layer during the extraction. The emulsions were such that centrifuging was required to separate the solvent from the water layer. Such emulsions are known to negatively affect surrogate yields. The affected surrogates were qualified to indicate matrix interference.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
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Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank (MB) contained low levels of Vanadium above the Method Detection Limit (MDL). In accordance with AEL QA policy, all sample results found in the Method Blank are flagged with a V qualifier to indicate the data is estimated. All sample results are below the Florida GCTL for this analyte. No further corrective action was required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for several analytes between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3108513 in comparison with 3108514. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The spike recovery of Vinyl Chloride for the Laboratory Control Sample Duplicate (LCSD) was outside control criterion. The LCSD was analyzed only to allow for RPD determination. All client sampes were analyzed following ap assing CCV and LCS. No corrective action necessary.

The matrix spike (MS) recovery of Vinyl Chloride for J1906272020 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is J4 qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906272

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: EPA 300.0

Preparation: None

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Chloride and/or Nitrate for J1906272016 and J1906272020 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Diluion:

F. Samples:

G. Other:

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 17, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

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Advanced Environmental Laboratories, Inc.

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Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906329001	19136-MW-7A	Water	5/16/2019 08:32	5/17/2019 08:35
J1906329002	19136-MW-7B	Water	5/16/2019 08:14	5/17/2019 08:35
J1906329003	19136-MW-8A	Water	5/16/2019 09:44	5/17/2019 08:35
J1906329004	19136-MW-8B	Water	5/16/2019 09:22	5/17/2019 08:35
J1906329005	19136-MW-9A	Water	5/16/2019 11:00	5/17/2019 08:35
J1906329006	19136-MW-9B	Water	5/16/2019 10:38	5/17/2019 08:35
J1906329007	19136-MW-12A	Water	5/16/2019 13:55	5/17/2019 08:35
J1906329008	19136-MW-12B	Water	5/16/2019 13:37	5/17/2019 08:35
J1906329009	19136-MW-13A	Water	5/16/2019 11:55	5/17/2019 08:35
J1906329010	19136-MW-13B	Water	5/16/2019 12:30	5/17/2019 08:35
J1906329011	19136-MW-22AR	Water	5/16/2019 12:32	5/17/2019 08:35
J1906329012	19136-MW-22BR	Water	5/16/2019 12:10	5/17/2019 08:35
J1906329013	19136-MW-24A	Water	5/16/2019 14:08	5/17/2019 08:35
J1906329014	19136-MW-24B	Water	5/16/2019 13:46	5/17/2019 08:35
J1906329015	19136-Dup-1	Water	5/16/2019 00:01	5/17/2019 08:35
J1906329016	19136-TripBlank-5	Water	5/16/2019 00:00	5/17/2019 08:35
J1906329017	19136-TripBlank-6	Water	5/16/2019 00:00	5/17/2019 08:35

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329001** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7A** Date Collected: 05/16/19 08:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:14	J
Barium	**19**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:14	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:14	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:14	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:14	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:14	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:14	J
Iron	**20000**		**ug/L**	**1**	400	100	5/24/2019 11:14	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:14	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:14	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:14	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:14	J
Sodium	**18**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:14	J
Vanadium	**1.9**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:15	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:14	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:47	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.013**	**I,J4**	**ug/L**	**1**	0.10	0.011	5/24/2019 15:41	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 16:11	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:11	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:11	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 16:11	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 16:11	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:11	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 16:11	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329001** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7A** Date Collected: 05/16/19 08:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:11	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:11	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 16:11	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:11	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 16:11	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 16:11	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 16:11	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 16:11	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 16:11	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:11	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 16:11	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 16:11	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 16:11	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:11	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 16:11	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:11	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:11	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:11	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:11	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:11	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:11	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 16:11	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:11	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:11	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 16:11	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:11	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:11	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:11	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:11	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 16:11	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 16:11	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:11	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 16:11	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:11	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:11	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:11	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:11	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 16:11	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 16:11	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/29/2019 16:11	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329001** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-7A** Date Collected: 05/16/19 08:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 16:11	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 16:11	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 16:11	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 16:11	
Toluene-d8 (S)	**101**		**%**	**1**	80-121		5/29/2019 16:11	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 16:11	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**76**		**mg/L**	**1**	5.0	0.50	5/17/2019 15:55	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 15:55	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**13**		**mg/L**	**25**	0.25	0.20	5/23/2019 14:58	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**140**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:38	J
Barium	**32**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:38	J
Beryllium	**0.80**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:38	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:38	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:38	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**3.5**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:38	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:38	J
Iron	**22000**		**ug/L**	**1**	400	100	5/24/2019 11:38	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:38	J
Nickel	**6.5**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:38	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:38	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:38	J
Sodium	**19**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:38	J
Vanadium	**4.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:19	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:38	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:51	J
Thallium	**0.082**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 15:57	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 16:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 16:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 16:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:47	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 16:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:47	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 16:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 16:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 16:47	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 16:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 16:47	J
Acetone	**2.5**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 16:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 16:47	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 16:47	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 16:47	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 16:47	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:47	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 16:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 16:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:47	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 16:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 16:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 16:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 16:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 16:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 16:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 16:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 16:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 16:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 16:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 16:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 16:47	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 16:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 16:47	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/29/2019 16:47	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 16:47	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		5/29/2019 16:47	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 16:47	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 16:47	J
1,2-Dichloroethane-d4 (S)	**83**		**%**	**1**	77-125		5/29/2019 16:47	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 16:47	
Bromofluorobenzene (S)	**96**		**%**	**1**	80-129		5/29/2019 16:47	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329002** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-7B** Date Collected: 05/16/19 08:14

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**39**		**mg/L**	**1**	5.0	0.50	5/17/2019 16:16	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 16:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.6**		**mg/L**	**5**	0.050	0.040	5/23/2019 14:59	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**460**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:42	J
Barium	**27**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:42	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:42	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:42	J
Chromium	**2.7**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:42	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:42	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:42	J
Iron	**2800**		**ug/L**	**1**	400	100	5/24/2019 11:42	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:42	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:42	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:42	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:42	J
Sodium	**4.6**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:42	J
Vanadium	**8.2**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:23	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:42	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:54	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:54	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**I**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:01	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 17:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 17:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 17:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:28	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 17:28	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:28	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 17:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 17:28	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 17:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 17:28	J
Acetone	**2.2**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 17:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 17:28	J
Benzene	**1.5**		**ug/L**	**1**	1.0	0.16	5/29/2019 17:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 17:28	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 17:28	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 17:28	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:28	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 17:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:28	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 17:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 17:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 17:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 17:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 17:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:28	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 17:28	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 17:28	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 17:28	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		5/29/2019 17:28	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 17:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 17:28	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 17:28	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		5/29/2019 17:28	
Bromofluorobenzene (S)	**97**		**%**	**1**	80-129		5/29/2019 17:28	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.9**	**I**	**mg/L**	**5**	25	2.5	5/17/2019 16:58	J
Nitrate (as N)	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	5/17/2019 16:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.7**		**mg/L**	**10**	0.10	0.080	5/23/2019 14:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329003** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-8A** Date Collected: 05/16/19 09:44

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329004** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-8B** Date Collected: 05/16/19 09:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:45	J
Barium	**42**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:45	J
Beryllium	**0.70**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:45	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:45	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:45	J
Cobalt	**8.5**		**ug/L**	**1**	8.0	2.0	5/24/2019 11:45	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:45	J
Iron	**46000**		**ug/L**	**1**	400	100	5/24/2019 11:45	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:45	J
Nickel	**7.3**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:45	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:45	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:45	J
Sodium	**33**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:45	J
Vanadium	**6.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:45	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 19:59	J
Thallium	**0.097**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 19:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.016**	**I**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:04	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329004** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8B** Date Collected: 05/16/19 09:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 17:57	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:57	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:57	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 17:57	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 17:57	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:57	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 17:57	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:57	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:57	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 17:57	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 17:57	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 17:57	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 17:57	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 17:57	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 17:57	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 17:57	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:57	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 17:57	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 17:57	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 17:57	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:57	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 17:57	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:57	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:57	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:57	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 17:57	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:57	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 17:57	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 17:57	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:57	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:57	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 17:57	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:57	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 17:57	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 17:57	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 17:57	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329004** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-8B** Date Collected: 05/16/19 09:22

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 17:57	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 17:57	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:57	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 17:57	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 17:57	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 17:57	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 17:57	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 17:57	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 17:57	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		5/29/2019 17:57	
Toluene-d8 (S)	**99**		**%**	**1**	77-119		5/29/2019 17:57	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 17:57	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 17:57	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 17:57	J
1,2-Dichloroethane-d4 (S)	**82**		**%**	**1**	77-125		5/29/2019 17:57	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 17:57	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 17:57	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**11**		**mg/L**	**1**	5.0	0.50	5/17/2019 16:37	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 16:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**5**	0.050	0.040	5/23/2019 14:11	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329005** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9A** Date Collected: 05/16/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:49	J
Barium	**6.5**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:49	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:49	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:49	J
Chromium	**2.4**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:49	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:49	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:49	J
Iron	**490**		**ug/L**	**1**	400	100	5/24/2019 11:49	J
Lead	**5.3**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 11:49	J
Nickel	**6.7**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:49	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:49	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:49	J
Sodium	**22**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:49	J
Vanadium	**6.9**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:30	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:49	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:03	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:03	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.027**	**I**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:14	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 18:34	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 18:34	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 18:34	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 18:34	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 18:34	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 18:34	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 18:34	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329005** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9A** Date Collected: 05/16/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 18:34	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 18:34	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 18:34	J
1,4-Dichlorobenzene	**1.5**		**ug/L**	**1**	1.0	0.22	5/29/2019 18:34	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 18:34	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 18:34	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 18:34	J
Acetone	**8.4**		**ug/L**	**1**	5.0	2.1	5/29/2019 18:34	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 18:34	J
Benzene	**9.9**		**ug/L**	**1**	1.0	0.16	5/29/2019 18:34	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 18:34	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 18:34	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 18:34	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 18:34	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 18:34	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 18:34	J
Chlorobenzene	**0.35**	**I**	**ug/L**	**1**	1.0	0.21	5/29/2019 18:34	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 18:34	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 18:34	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 18:34	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 18:34	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 18:34	J
Ethylbenzene	**0.89**	**I**	**ug/L**	**1**	1.0	0.24	5/29/2019 18:34	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 18:34	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 18:34	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 18:34	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 18:34	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 18:34	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 18:34	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 18:34	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 18:34	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 18:34	J
Xylene (Total)	**1.0**	**I**	**ug/L**	**1**	2.0	0.53	5/29/2019 18:34	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 18:34	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 18:34	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 18:34	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 18:34	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 18:34	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 18:34	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 18:34	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329005** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-9A** Date Collected: 05/16/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 18:34	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 18:34	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 18:34	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 18:34	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 18:34	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 18:34	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	5/17/2019 18:22	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 18:22	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.7**		**mg/L**	**20**	0.20	0.16	5/23/2019 14:12	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**210**		**mg/L**	**1**	10	10	5/22/2019 12:32	J

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:52	J
Barium	**47**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:52	J
Beryllium	**0.70**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:52	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:52	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:52	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.3**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:52	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:52	J
Iron	**9000**		**ug/L**	**1**	400	100	5/24/2019 11:52	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:52	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:52	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:52	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:52	J
Sodium	**38**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:52	J
Vanadium	**6.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:34	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:52	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:06	J
Thallium	**0.082**	**I**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:06	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:17	J
VOLATILES								
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**400**		**mg/L**	**1**	10	10	5/22/2019 16:45	J
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 19:03	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:03	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:03	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 19:03	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 19:03	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:03	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 19:03	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:03	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:03	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 19:03	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:03	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 19:03	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 19:03	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 19:03	J
Acetone	**4.4**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 19:03	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 19:03	J
Benzene	**0.42**	**I**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:03	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 19:03	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 19:03	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 19:03	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:03	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 19:03	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:03	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:03	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:03	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:03	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:03	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:03	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 19:03	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:03	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:03	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 19:03	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:03	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:03	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:03	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:03	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 19:03	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 19:03	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:03	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 19:03	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:03	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:03	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:03	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:03	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 19:03	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 19:03	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 19:03	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 19:03	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 19:03	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329006** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-9B** Date Collected: 05/16/19 10:38

Sample Description: Location: RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 19:03	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 19:03	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 19:03	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 19:03	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**110**		**mg/L**	**1**	5.0	0.50	5/17/2019 17:19	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 17:19	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.2**		**mg/L**	**5**	0.050	0.040	5/23/2019 15:09	G

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location: RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Vanadium	**8.4**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:37	J
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:56	J
Barium	**110**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:56	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:56	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:56	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:56	J
Cobalt	**3.0**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:56	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:56	J
Iron	**6900**		**ug/L**	**1**	400	100	5/24/2019 11:56	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 11:56	J
Nickel	**7.0**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 11:56	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:56	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:56	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Sodium	**100**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:56	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:56	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:10	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:10	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 19:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 19:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 19:40	J
1,1-Dichloroethylene	**0.18**	**U,J4**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 19:40	J
1,2-Dichlorobenzene	**0.18**	**U,J4**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 19:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 19:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 19:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 19:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 19:40	J
Acetone	**3.5**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 19:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 19:40	J
Benzene	**5.0**	**J4**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 19:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 19:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 19:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 19:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:40	J
Chlorobenzene	**0.21**	**U,J4**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:40	J
Chloroform	**0.18**	**U,J4**	**ug/L**	**1**	1.0	0.18	5/29/2019 19:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 19:40	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 19:40	J
Ethylbenzene	**0.24**	**U,J4**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 19:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:40	J
Tetrachloroethylene (PCE)	**0.36**	**U,J4**	**ug/L**	**1**	1.0	0.36	5/29/2019 19:40	J
Toluene	**0.23**	**U,J4**	**ug/L**	**1**	1.0	0.23	5/29/2019 19:40	J
Trichloroethene	**0.29**	**U,J4**	**ug/L**	**1**	1.0	0.29	5/29/2019 19:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 19:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 19:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:40	J
Xylene (Total)	**0.53**	**U,J4**	**ug/L**	**1**	2.0	0.53	5/29/2019 19:40	J
cis-1,2-Dichloroethylene	**0.24**	**U,J4**	**ug/L**	**1**	1.0	0.24	5/29/2019 19:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 19:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 19:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 19:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 19:40	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 19:40	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 19:40	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/29/2019 19:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 19:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 19:40	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 19:40	
Toluene-d8 (S)	**103**		**%**	**1**	80-121		5/29/2019 19:40	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 19:40	
VOLATILES								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	5/17/2019 21:32	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 21:32	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.4**		**mg/L**	**5**	0.050	0.040	5/23/2019 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**390**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329007** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-12A** Date Collected: 05/16/19 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:20	J

Lab ID: **J1906329008** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-12B** Date Collected: 05/16/19 13:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 11:59	J
Barium	**18**		**ug/L**	**1**	4.0	1.0	5/24/2019 11:59	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 11:59	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 11:59	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:59	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 11:59	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 11:59	J
Iron	**550**		**ug/L**	**1**	400	100	5/24/2019 11:59	J
Lead	**3.2**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 11:59	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 11:59	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 11:59	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 11:59	J
Sodium	**7.8**		**mg/L**	**1**	1.4	0.35	5/24/2019 11:59	J
Vanadium	**3.6**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 11:41	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 11:59	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:36	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:36	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329008** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12B** Date Collected: 05/16/19 13:37

Sample Description: Location: RegLmt

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:23	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 20:09	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:09	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:09	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 20:09	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 20:09	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:09	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 20:09	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:09	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:09	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 20:09	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:09	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 20:09	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 20:09	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 20:09	J
Acetone	**3.1**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 20:09	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 20:09	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:09	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 20:09	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 20:09	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 20:09	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:09	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 20:09	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:09	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:09	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:09	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:09	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:09	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:09	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 20:09	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:09	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:09	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329008** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-12B** Date Collected: 05/16/19 13:37

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 20:09	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:09	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:09	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:09	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:09	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 20:09	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 20:09	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:09	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 20:09	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:09	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:09	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:09	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:09	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 20:09	J
1,2-Dichloroethane-d4 (S)	**90**		**%**	**1**	70-128		5/29/2019 20:09	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 20:09	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		5/29/2019 20:09	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 20:09	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 20:09	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	77-125		5/29/2019 20:09	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 20:09	
Bromofluorobenzene (S)	**101**		**%**	**1**	80-129		5/29/2019 20:09	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**17**		**mg/L**	**1**	5.0	0.50	5/17/2019 20:29	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 20:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.05**		**mg/L**	**1**	0.010	0.0080	5/23/2019 14:26	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**61**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329009** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13A** Date Collected: 05/16/19 11:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:10	J
Barium	**290**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:10	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:10	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:10	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:10	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:10	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:10	J
Iron	**26000**		**ug/L**	**1**	400	100	5/24/2019 12:10	J
Lead	**3.5**	**I**	**ug/L**	**1**	12	3.0	5/24/2019 12:10	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:10	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:10	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:10	J
Sodium	**350**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:10	J
Vanadium	**13**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:07	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:10	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:55	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:27	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 20:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 20:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 20:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:46	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 20:46	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329009** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13A** Date Collected: 05/16/19 11:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:46	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 20:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 20:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 20:46	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 20:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 20:46	J
Acetone	**3.4**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 20:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 20:46	J
Benzene	**7.3**		**ug/L**	**1**	1.0	0.16	5/29/2019 20:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 20:46	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 20:46	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 20:46	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:46	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 20:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 20:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 20:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 20:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 20:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 20:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 20:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 20:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 20:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 20:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:46	J
Xylene (Total)	**1.2**	**I**	**ug/L**	**1**	2.0	0.53	5/29/2019 20:46	J
cis-1,2-Dichloroethylene	**0.63**	**I**	**ug/L**	**1**	1.0	0.24	5/29/2019 20:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 20:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 20:46	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 20:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 20:46	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 20:46	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 20:46	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329009** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-13A** Date Collected: 05/16/19 11:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/29/2019 20:46	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 20:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 20:46	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 20:46	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 20:46	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 20:46	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**1200**		**mg/L**	**20**	100	10	5/17/2019 18:43	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	5/17/2019 18:43	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.2**		**mg/L**	**10**	0.10	0.080	5/23/2019 15:13	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:13	J
Barium	**13**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:13	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:13	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:13	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:13	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:13	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:13	J
Iron	**1100**		**ug/L**	**1**	400	100	5/24/2019 12:13	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:13	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:13	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:13	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:13	J
Sodium	**12**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:13	J
Vanadium	**2.8**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:10	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:13	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 20:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 20:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:30	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 21:15	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:15	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:15	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 21:15	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 21:15	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:15	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 21:15	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:15	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:15	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 21:15	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:15	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 21:15	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 21:15	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 21:15	J
Acetone	**5.7**		**ug/L**	**1**	5.0	2.1	5/29/2019 21:15	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 21:15	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:15	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 21:15	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 21:15	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 21:15	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:15	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 21:15	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:15	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:15	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:15	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:15	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:15	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:15	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 21:15	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:15	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:15	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 21:15	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:15	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:15	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:15	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:15	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 21:15	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 21:15	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:15	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 21:15	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:15	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:15	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:15	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:15	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 21:15	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	70-128		5/29/2019 21:15	
Toluene-d8 (S)	**99**		**%**	**1**	77-119		5/29/2019 21:15	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 21:15	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 21:15	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 21:15	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	77-125		5/29/2019 21:15	
Toluene-d8 (S)	**103**		**%**	**1**	80-121		5/29/2019 21:15	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 21:15	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329010** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-13B** Date Collected: 05/16/19 12:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	5/17/2019 19:46	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 19:46	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.11**		**mg/L**	**1**	0.010	0.0080	5/23/2019 15:14	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**76**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 12:17	J
Barium	**55**		**ug/L**	**1**	4.0	1.0	5/24/2019 12:17	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 12:17	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 12:17	J
Chromium	**2.2**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:17	J
Cobalt	**2.3**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 12:17	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 12:17	J
Iron	**13000**		**ug/L**	**1**	400	100	5/24/2019 12:17	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/24/2019 12:17	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 12:17	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 12:17	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 12:17	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	5/24/2019 12:17	J
Vanadium	**6.1**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 12:14	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 12:17	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:02	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:02	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:33	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 21:52	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:52	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:52	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 21:52	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 21:52	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:52	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 21:52	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:52	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:52	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 21:52	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 21:52	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 21:52	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 21:52	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 21:52	J
Acetone	**2.9**	**I**	**ug/L**	**1**	5.0	2.1	5/29/2019 21:52	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 21:52	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:52	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 21:52	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 21:52	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 21:52	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:52	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 21:52	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:52	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:52	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:52	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 21:52	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:52	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 21:52	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 21:52	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:52	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:52	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 21:52	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:52	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 21:52	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 21:52	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 21:52	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 21:52	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 21:52	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:52	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 21:52	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 21:52	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 21:52	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 21:52	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 21:52	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 21:52	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	70-128		5/29/2019 21:52	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 21:52	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 21:52	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 21:52	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 21:52	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	77-125		5/29/2019 21:52	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 21:52	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 21:52	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	5/17/2019 20:08	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 20:08	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.8**		**mg/L**	**20**	0.20	0.16	5/23/2019 15:15	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329011** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-22AR** Date Collected: 05/16/19 12:32

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**540**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329012** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-22BR** Date Collected: 05/16/19 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:02	J
Barium	**14**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:02	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:02	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:02	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:02	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:02	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:02	J
Iron	**1500**		**ug/L**	**1**	400	100	5/28/2019 14:02	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:02	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:02	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:02	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:02	J
Sodium	**7.6**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:02	J
Vanadium	**1.1**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:02	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:02	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:07	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:07	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:36	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329012** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22BR** Date Collected: 05/16/19 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	5/17/2019 19:04	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 19:04	J
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 22:21	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:21	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:21	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 22:21	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 22:21	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:21	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 22:21	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:21	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:21	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 22:21	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:21	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 22:21	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 22:21	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 22:21	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 22:21	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 22:21	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:21	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 22:21	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 22:21	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 22:21	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:21	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 22:21	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:21	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:21	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:21	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:21	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:21	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:21	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 22:21	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:21	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:21	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 22:21	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329012** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-22BR** Date Collected: 05/16/19 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:21	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:21	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:21	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:21	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 22:21	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 22:21	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:21	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 22:21	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:21	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:21	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:21	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:21	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 22:21	J
1,2-Dichloroethane-d4 (S)	**88**		**%**	**1**	70-128		5/29/2019 22:21	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 22:21	
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		5/29/2019 22:21	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 22:21	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 22:21	J
1,2-Dichloroethane-d4 (S)	**84**		**%**	**1**	77-125		5/29/2019 22:21	
Toluene-d8 (S)	**102**		**%**	**1**	80-121		5/29/2019 22:21	
Bromofluorobenzene (S)	**100**		**%**	**1**	80-129		5/29/2019 22:21	
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.37**		**mg/L**	**1**	0.010	0.0080	5/23/2019 15:16	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**64**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329013** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24A** Date Collected: 05/16/19 14:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:22	J
Barium	**27**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:22	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:22	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:22	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:22	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:22	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:22	J
Iron	**680**		**ug/L**	**1**	400	100	5/28/2019 14:22	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:22	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:22	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:22	J
Sodium	**20**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:22	J
Vanadium	**3.8**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:22	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:22	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.18**	**I**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:11	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:11	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:40	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 22:58	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:58	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:58	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 22:58	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 22:58	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:58	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 22:58	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329013** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24A** Date Collected: 05/16/19 14:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:58	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:58	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 22:58	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 22:58	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 22:58	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 22:58	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 22:58	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 22:58	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 22:58	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:58	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 22:58	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 22:58	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 22:58	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:58	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 22:58	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:58	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:58	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:58	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 22:58	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:58	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 22:58	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 22:58	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:58	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:58	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 22:58	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:58	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 22:58	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 22:58	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 22:58	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 22:58	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 22:58	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:58	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 22:58	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 22:58	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 22:58	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 22:58	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 22:58	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 22:58	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	70-128		5/29/2019 22:58	
Toluene-d8 (S)	**97**		**%**	**1**	77-119		5/29/2019 22:58	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329013** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-24A** Date Collected: 05/16/19 14:08

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 22:58	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 22:58	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 22:58	J
1,2-Dichloroethane-d4 (S)	**87**		**%**	**1**	77-125		5/29/2019 22:58	
Toluene-d8 (S)	**101**		**%**	**1**	80-121		5/29/2019 22:58	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 22:58	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**300**		**mg/L**	**2**	10	1.0	5/22/2019 09:44	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 21:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.06**		**mg/L**	**1**	0.010	0.0080	5/23/2019 14:32	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**100**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:26	J
Barium	**10**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:26	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:26	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:26	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:26	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:26	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:26	J
Iron	**480**		**ug/L**	**1**	400	100	5/28/2019 14:26	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 14:26	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:26	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:26	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:26	J
Sodium	**6.2**		**mg/L**	**1**	1.4	0.35	5/28/2019 14:26	J
Vanadium	**2.1**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:26	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:26	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:15	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:15	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:43	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/30/2019 03:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/30/2019 03:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/30/2019 03:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/30/2019 03:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/30/2019 03:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/30/2019 03:40	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/30/2019 03:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/30/2019 03:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/30/2019 03:40	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/30/2019 03:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/30/2019 03:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/30/2019 03:40	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/30/2019 03:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/30/2019 03:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/30/2019 03:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/30/2019 03:40	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/30/2019 03:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/30/2019 03:40	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/30/2019 03:40	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/30/2019 03:40	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/30/2019 03:40	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/30/2019 03:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/30/2019 03:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/30/2019 03:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/30/2019 03:40	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/30/2019 03:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/30/2019 03:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/30/2019 03:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/30/2019 03:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/30/2019 03:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/30/2019 03:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/30/2019 03:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/30/2019 03:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/30/2019 03:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/30/2019 03:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/30/2019 03:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/30/2019 03:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/30/2019 03:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/30/2019 03:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/30/2019 03:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/30/2019 03:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/30/2019 03:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/30/2019 03:40	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/30/2019 03:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/30/2019 03:40	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	70-128		5/30/2019 03:40	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/30/2019 03:40	
Bromofluorobenzene (S)	**119**		**%**	**1**	86-123		5/30/2019 03:40	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/30/2019 03:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/30/2019 03:40	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		5/30/2019 03:40	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/30/2019 03:40	
Bromofluorobenzene (S)	**104**		**%**	**1**	80-129		5/30/2019 03:40	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329014** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-MW-24B** Date Collected: 05/16/19 13:46

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**35**		**mg/L**	**1**	5.0	0.50	5/17/2019 20:50	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/17/2019 20:50	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.08**		**mg/L**	**1**	0.010	0.0080	5/23/2019 14:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**66**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/28/2019 14:29	J
Barium	**270**		**ug/L**	**1**	4.0	1.0	5/28/2019 14:29	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/28/2019 14:29	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:29	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:29	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 14:29	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/28/2019 14:29	J
Iron	**22000**		**ug/L**	**1**	400	100	5/28/2019 14:29	J
Lead	**5.2**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 14:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/28/2019 14:29	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/28/2019 14:29	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/28/2019 14:29	J
Sodium	**380**		**mg/L**	**2**	2.8	0.70	5/29/2019 09:06	J
Vanadium	**10**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 14:29	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/28/2019 14:29	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/22/2019 21:19	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/22/2019 21:19	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 16:52	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 14:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 14:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 14:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 14:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 14:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 14:35	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 14:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 14:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 14:35	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 14:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 14:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 14:35	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 14:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 14:35	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 14:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 14:35	J
Benzene	**7.2**		**ug/L**	**1**	1.0	0.16	5/29/2019 14:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 14:35	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 14:35	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 14:35	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 14:35	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 14:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 14:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 14:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 14:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 14:35	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 14:35	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 14:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 14:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 14:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 14:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 14:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 14:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 14:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 14:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 14:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 14:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 14:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 14:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 14:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 14:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 14:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 14:35	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 14:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 14:35	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		5/29/2019 14:35	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 14:35	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/29/2019 14:35	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 14:35	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 14:35	J
1,2-Dichloroethane-d4 (S)	**82**		**%**	**1**	77-125		5/29/2019 14:35	
Toluene-d8 (S)	**104**		**%**	**1**	80-121		5/29/2019 14:35	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 14:35	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**1200**		**mg/L**	**20**	100	10	5/17/2019 15:34	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	5/17/2019 15:34	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.2**		**mg/L**	**10**	0.10	0.080	5/23/2019 15:18	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329015** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-Dup-1** Date Collected: 05/16/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1700**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906329016** Date Received: 05/17/19 08:35 Matrix: Water
Sample ID: **19136-TripBlank-5** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 15:05	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:05	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:05	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 15:05	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 15:05	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:05	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 15:05	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:05	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:05	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 15:05	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:05	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 15:05	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 15:05	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 15:05	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 15:05	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 15:05	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:05	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 15:05	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 15:05	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 15:05	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:05	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 15:05	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:05	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:05	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:05	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:05	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329016** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-TripBlank-5** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:05	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:05	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 15:05	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:05	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:05	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 15:05	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:05	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:05	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:05	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:05	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 15:05	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 15:05	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:05	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 15:05	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:05	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:05	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:05	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:05	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 15:05	J
1,2-Dichloroethane-d4 (S)	**86**		**%**	**1**	70-128		5/29/2019 15:05	
Toluene-d8 (S)	**100**		**%**	**1**	77-119		5/29/2019 15:05	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		5/29/2019 15:05	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 15:05	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 15:05	J
1,2-Dichloroethane-d4 (S)	**82**		**%**	**1**	77-125		5/29/2019 15:05	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		5/29/2019 15:05	
Bromofluorobenzene (S)	**98**		**%**	**1**	80-129		5/29/2019 15:05	

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329017** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-TripBlank-6** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/29/2019 15:41	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:41	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:41	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/29/2019 15:41	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/29/2019 15:41	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:41	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/29/2019 15:41	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:41	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:41	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/29/2019 15:41	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/29/2019 15:41	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/29/2019 15:41	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/29/2019 15:41	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	5/29/2019 15:41	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/29/2019 15:41	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	5/29/2019 15:41	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:41	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/29/2019 15:41	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/29/2019 15:41	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	1.0	0.44	5/29/2019 15:41	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:41	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/29/2019 15:41	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:41	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:41	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:41	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	5/29/2019 15:41	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:41	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/29/2019 15:41	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/29/2019 15:41	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:41	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:41	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/29/2019 15:41	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:41	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	5/29/2019 15:41	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/29/2019 15:41	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/29/2019 15:41	J

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ANALYTICAL RESULTS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906329017** Date Received: 05/17/19 08:35 Matrix: Water

Sample ID: **19136-TripBlank-6** Date Collected: 05/16/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/29/2019 15:41	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/29/2019 15:41	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:41	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	5/29/2019 15:41	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/29/2019 15:41	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/29/2019 15:41	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/29/2019 15:41	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/29/2019 15:41	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	5/29/2019 15:41	J
1,2-Dichloroethane-d4 (S)	**89**		**%**	**1**	70-128		5/29/2019 15:41	
Toluene-d8 (S)	**98**		**%**	**1**	77-119		5/29/2019 15:41	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		5/29/2019 15:41	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/29/2019 15:41	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/29/2019 15:41	J
1,2-Dichloroethane-d4 (S)	**85**		**%**	**1**	77-125		5/29/2019 15:41	
Toluene-d8 (S)	**103**		**%**	**1**	80-121		5/29/2019 15:41	
Bromofluorobenzene (S)	**99**		**%**	**1**	80-129		5/29/2019 15:41	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Method Blank Contamination
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/4985 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329006, J1906329015

METHOD BLANK: 3099609

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3099610 3099611

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	110	110	90-110	0	10	
Nitrate (as N)	mg/L	2	2.2	2.1	109	103	90-110	6	10	

MATRIX SPIKE SAMPLE: 3099649 Original: J1906316006

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	170	20	190	60	90-110	
Nitrate (as N)	mg/L	0	2	2.3	117	90-110	

QC Batch: WCAj/4990 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1906329005, J1906329007, J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013,

METHOD BLANK: 3099865

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3099866 3099867

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	110	108	90-110	1	10	
Nitrate (as N)	mg/L	2	2.2	2.2	108	110	90-110	2	10	

MATRIX SPIKE SAMPLE: 3099868 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	19	20	38	93	90-110	
Nitrate (as N)	mg/L	0	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 3101100 Original: J1906359001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	12	20	31	97	90-110	
Nitrate (as N)	mg/L	0.006	2	2.1	103	90-110	

QC Batch: DGMj/3420 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007

METHOD BLANK: 3101153

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3101154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	51	103	80-120	
Thallium	ug/L	50	55	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101155 3101156 Original: J1906176001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.21	50	52	53	104	107	75-125	2	20	
Thallium	ug/L	0.026	50	56	50	112	100	75-125	12	20	

QC Batch: DGMj/3421 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 05/21/2019 03:30

Associated Lab Samples: J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013, J1906329014, J1906329015

METHOD BLANK: 3101158

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3101159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	53	105	80-120	
Thallium	ug/L	50	49	98	80-120	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3101160 3101161 Original: J1906329008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.023	50	51	52	103	104	75-125	2	20	
Thallium	ug/L	0.019	50	47	48	95	97	75-125	2	20	

QC Batch: WCAj/5024 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1906329013

METHOD BLANK: 3103172

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U

LABORATORY CONTROL SAMPLE & LCSD: 3103173 3103174

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	19	19	93	95	90-110	2	10	

MATRIX SPIKE SAMPLE: 3104343 Original: J1906546001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	19	20	37	90	90-110	

MATRIX SPIKE SAMPLE: 3104915 Original: J1906471002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	70	20	89	97	90-110	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5025 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005

METHOD BLANK: 3103402

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3103403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	330	112	85-115	

SAMPLE DUPLICATE: 3103404 Original: J1906272011

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	180	170	5	10	

QC Batch: DGMj/3435 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

METHOD BLANK: 3103525

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103525

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	1.4	1.0	I

LABORATORY CONTROL SAMPLE: 3103526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	200	98	80-120	
Arsenic	ug/L	200	190	95	80-120	
Barium	ug/L	20	20	101	80-120	
Beryllium	ug/L	10	9.5	95	80-120	
Cadmium	ug/L	20	20	98	80-120	
Cobalt	ug/L	40	41	102	80-120	
Chromium	ug/L	40	40	99	80-120	
Copper	ug/L	80	80	100	80-120	
Iron	ug/L	2000	1900	94	80-120	
Sodium	mg/L	7	7.1	102	80-120	
Nickel	ug/L	120	120	100	80-120	
Lead	ug/L	60	60	100	80-120	
Selenium	ug/L	800	780	97	80-120	
Vanadium	ug/L	20	20	98	80-120	
Zinc	ug/L	1000	980	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103527 3103528 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103527 3103528 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Silver	ug/L	0	200	200	200	102	100	75-125	2	20	
Arsenic	ug/L	0	200	190	200	97	98	75-125	1	20	
Barium	ug/L	19	20	40	40	105	104	75-125	0	20	
Beryllium	ug/L	0	10	9.9	9.7	99	97	75-125	2	20	
Cadmium	ug/L	0	20	19	19	96	97	75-125	1	20	
Cobalt	ug/L	1.8	40	43	42	108	106	75-125	2	20	
Chromium	ug/L	0.4	40	42	40	105	101	75-125	4	20	
Copper	ug/L	0	80	82	77	102	96	75-125	6	20	
Iron	ug/L	20000	2000	23000	22000	137	113	75-125	2	20	
Sodium	mg/L	18	7	26	26	109	102	75-125	2	20	
Nickel	ug/L	0.2	120	120	120	104	103	75-125	0	20	
Lead	ug/L	0.4	60	61	61	102	102	75-125	0	20	
Selenium	ug/L	0	800	750	740	94	93	75-125	1	20	
Vanadium	ug/L	1.9	20	22	23	103	107	75-125	4	20	
Zinc	ug/L	6.1	1000	1000	1000	101	100	75-125	1	20	

QC Batch: DGMj/3436 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906329012, J1906329013, J1906329014, J1906329015

METHOD BLANK: 3103529

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Vanadium	ug/L	1.2	1.0	I
Zinc	ug/L	50	50	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3103530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	97	80-120	
Arsenic	ug/L	200	200	100	80-120	
Barium	ug/L	20	20	102	80-120	
Beryllium	ug/L	10	9.7	97	80-120	
Cadmium	ug/L	20	20	101	80-120	
Cobalt	ug/L	40	41	103	80-120	
Chromium	ug/L	40	38	96	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1900	94	80-120	
Sodium	mg/L	7	7.5	108	80-120	
Nickel	ug/L	120	120	101	80-120	
Lead	ug/L	60	60	100	80-120	
Selenium	ug/L	800	800	100	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103531 3103532 Original: J1906329012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	200	190	99	97	75-125	2	20	
Arsenic	ug/L	2.8	200	200	200	101	102	75-125	1	20	
Barium	ug/L	14	20	35	34	106	104	75-125	1	20	
Beryllium	ug/L	0.1	10	10	9.9	101	99	75-125	2	20	
Cadmium	ug/L	0	20	20	20	103	101	75-125	2	20	
Cobalt	ug/L	0.3	40	42	42	106	104	75-125	2	20	
Chromium	ug/L	0	40	39	39	98	99	75-125	1	20	
Copper	ug/L	0	80	77	76	97	95	75-125	2	20	
Iron	ug/L	1500	2000	3500	3500	100	98	75-125	1	20	
Sodium	mg/L	7.6	7	15	15	111	108	75-125	1	20	
Nickel	ug/L	2.4	120	130	130	112	105	75-125	6	20	
Lead	ug/L	2.5	60	66	64	110	107	75-125	2	20	
Selenium	ug/L	0	800	820	810	103	101	75-125	2	20	
Vanadium	ug/L	1.1	20	22	22	107	103	75-125	4	20	
Zinc	ug/L	3.6	1000	1000	1000	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5032 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906329006, J1906329007, J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013,

METHOD BLANK: 3104463

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3104464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

SAMPLE DUPLICATE: 3104465 Original: J1906329006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	400	380	3	10	

QC Batch: WCAg/6571 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005

METHOD BLANK: 3105410

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3105411

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.47	95	90-110	

LABORATORY CONTROL SAMPLE: 3105412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.19	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105413 3105414 Original: J1906123003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0	0.4	0.41	0.40	104	101	90-110	3	10	

QC Batch: WCAg/6572 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906329006, J1906329007, J1906329008, J1906329009, J1906329010, J1906329011, J1906329012, J1906329013,

METHOD BLANK: 3105416

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3105417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.5	0.47	93	90-110	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3105418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.18	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3105419 3105420 Original: J1906329006

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	1.2	2	3.4	3.3	106	104	90-110	1	10	

QC Batch: DGMj/3454 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45
Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

METHOD BLANK: 3106506

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106507

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Mercury	ug/L	2	1.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106508 3106509 Original: J1906329001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.013	2	1.4	1.4	69	71	80-120	3	20	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: MSVj/3639 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/29/2019 10:12

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

METHOD BLANK: 3109810

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3109810

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	89	70-128	
Toluene-d8 (S)	%	97	77-119	
Bromofluorobenzene (S)	%	110	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3109811 3109812

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	15	15	74	73		1		
Vinyl Chloride	ug/L	20	17	17	84	85	70-130	1	20	
Bromomethane	ug/L	20	9.4	7.8	47	39		17		
Chloroethane	ug/L	20	17	18	87	91		5		
Trichlorofluoromethane	ug/L	20	21	22	105	109		4		
Acetone	ug/L	20	16	18	78	92		16		
1,1-Dichloroethylene	ug/L	20	22	23	109	113	70-130	3	20	
Iodomethane (Methyl Iodide)	ug/L	20	8.0	8.8	40	44		9		
Acrylonitrile	ug/L	20	21	22	105	108		3		
Methylene Chloride	ug/L	20	25	29	127	144		12		
Carbon Disulfide	ug/L	20	23	22	113	111		1		
trans-1,2-Dichloroethylene	ug/L	20	22	23	112	116		4		
1,1-Dichloroethane	ug/L	20	23	24	113	119		5		
Vinyl Acetate	ug/L	20	26	18	128	90		35		
2-Butanone (MEK)	ug/L	20	22	23	110	113		3		
cis-1,2-Dichloroethylene	ug/L	20	24	24	120	122	70-130	2	20	
Bromochloromethane	ug/L	20	24	27	122	136		10		
Chloroform	ug/L	20	22	22	109	112	70-130	3	20	
1,2-Dichloroethane	ug/L	20	21	22	107	113		5		
1,1,1-Trichloroethane	ug/L	20	21	21	104	106		2		
Carbon Tetrachloride	ug/L	20	22	23	110	114		3		
Benzene	ug/L	20	23	23	115	117	70-130	1	20	
Dibromomethane	ug/L	20	22	24	110	118		7		
1,2-Dichloropropane	ug/L	20	22	24	112	118		5		
Trichloroethene	ug/L	20	22	24	111	118	70-130	6	20	

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3109811 3109812

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	20	21	22	107	111		4		
cis-1,3-Dichloropropene	ug/L	20	25	24	124	119		5		
4-Methyl-2-pentanone (MIBK)	ug/L	20	20	22	102	111		8		
trans-1,3-Dichloropropylene	ug/L	20	25	24	125	119		5		
1,1,2-Trichloroethane	ug/L	20	22	23	112	113		1		
Toluene	ug/L	20	22	21	111	105	70-130	5	20	
2-Hexanone	ug/L	20	19	20	95	102		7		
Dibromochloromethane	ug/L	20	21	19	104	97		7		
Tetrachloroethylene (PCE)	ug/L	20	22	20	112	101	70-130	11	20	
1,1,1,2-Tetrachloroethane	ug/L	20	22	21	109	103		6		
Chlorobenzene	ug/L	20	22	21	110	106	70-130	4	20	
Ethylbenzene	ug/L	20	22	21	109	104	70-130	5	20	
Bromoform	ug/L	20	19	18	93	91		3		
Styrene	ug/L	20	21	20	106	100		6		
1,1,2,2-Tetrachloroethane	ug/L	20	21	19	105	96		9		
1,2,3-Trichloropropane	ug/L	20	21	21	105	103		1		
1,4-Dichlorobenzene	ug/L	20	22	20	111	102		8		
1,2-Dichlorobenzene	ug/L	20	22	20	109	102	70-130	7	20	
Xylene (Total)	ug/L	60	66	63	110	105	70-130	5	20	
1,2-Dichloroethane-d4 (S)	%				88	104	70-128	16		
Toluene-d8 (S)	%				99	99	77-119	0		
Bromofluorobenzene (S)	%				103	103	86-123	0		

MATRIX SPIKE SAMPLE: 3109813 Original: J1906329007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Chloromethane	ug/L	0	20	21	105		
Vinyl Chloride	ug/L	0	20	26	130	70-130	
Bromomethane	ug/L	0	20	13	67		
Chloroethane	ug/L	0	20	27	137		
Trichlorofluoromethane	ug/L	0	20	32	162		
Acetone	ug/L	3.5	20	29	128		
1,1-Dichloroethylene	ug/L	0	20	33	166	70-130	
Iodomethane (Methyl Iodide)	ug/L	0	20	9.8	49		
Acrylonitrile	ug/L	0	20	31	156		
Methylene Chloride	ug/L	0	20	36	180		
Carbon Disulfide	ug/L	0	20	32	162		
trans-1,2-Dichloroethylene	ug/L	0	20	33	165		

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3109813 Original: J1906329007

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	0	20	36	178		
Vinyl Acetate	ug/L	0	20	42	209		
2-Butanone (MEK)	ug/L	0	20	35	175		
cis-1,2-Dichloroethylene	ug/L	0	20	35	177	70-130	
Bromochloromethane	ug/L	0	20	41	207		
Chloroform	ug/L	0	20	34	171	70-130	
1,2-Dichloroethane	ug/L	0	20	35	173		
1,1,1-Trichloroethane	ug/L	0	20	32	161		
Carbon Tetrachloride	ug/L	0	20	35	174		
Benzene	ug/L	5	20	41	181	70-130	
Dibromomethane	ug/L	0	20	36	181		
1,2-Dichloropropane	ug/L	0	20	36	182		
Trichloroethene	ug/L	0	20	33	163	70-130	
Bromodichloromethane	ug/L	0	20	35	173		
cis-1,3-Dichloropropene	ug/L	0	20	28	142		
4-Methyl-2-pentanone (MIBK)	ug/L	0	20	33	165		
trans-1,3-Dichloropropylene	ug/L	0	20	29	143		
1,1,2-Trichloroethane	ug/L	0	20	35	177		
Toluene	ug/L	0	20	33	166	70-130	
2-Hexanone	ug/L	0	20	33	164		
Dibromochloromethane	ug/L	0	20	33	163		
Tetrachloroethylene (PCE)	ug/L	0	20	31	154	70-130	
1,1,1,2-Tetrachloroethane	ug/L	0	20	35	175		
Chlorobenzene	ug/L	0	20	33	167	70-130	
Ethylbenzene	ug/L	0	20	33	164	70-130	
Bromoform	ug/L	0	20	29	147		
Styrene	ug/L	0	20	31	154		
1,1,2,2-Tetrachloroethane	ug/L	0	20	33	166		
1,2,3-Trichloropropane	ug/L	0	20	30	148		
1,4-Dichlorobenzene	ug/L	0	20	31	154		
1,2-Dichlorobenzene	ug/L	0	20	32	162	70-130	
Xylene (Total)	ug/L	0	60	99	164	70-130	
1,2-Dichloroethane-d4 (S)	%	89			97	70-128	
Toluene-d8 (S)	%	98			99	77-119	
Bromofluorobenzene (S)	%	114			99	86-123	

QC Batch: MSVj/3641 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 05/29/2019 10:12

Associated Lab Samples: J1906329001, J1906329002, J1906329003, J1906329004, J1906329005, J1906329006, J1906329007, J1906329008,

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QUALITY CONTROL DATA

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3109817

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	85	77-125	
Toluene-d8 (S)	%	101	80-121	
Bromofluorobenzene (S)	%	96	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3109818 3109819

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.89	0.77	111	96	70-130	14	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	1.1	1.1	138	136	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%				81	87	77-125	7		
Toluene-d8 (S)	%				106	103	80-121	3		
Bromofluorobenzene (S)	%				101	99	80-129	2		

MATRIX SPIKE SAMPLE: 3109820 Original: J1906329002

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.73	91	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	1.2	148	70-130	
1,2-Dichloroethane-d4 (S)	%	83			88	77-125	
Toluene-d8 (S)	%	102			105	80-121	
Bromofluorobenzene (S)	%	96			100	80-129	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result
V	Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329001	19136-MW-7A			EPA 300.0	WCAj/4985
J1906329002	19136-MW-7B			EPA 300.0	WCAj/4985
J1906329003	19136-MW-8A			EPA 300.0	WCAj/4985
J1906329004	19136-MW-8B			EPA 300.0	WCAj/4985
J1906329006	19136-MW-9B			EPA 300.0	WCAj/4985
J1906329015	19136-Dup-1			EPA 300.0	WCAj/4985
J1906329005	19136-MW-9A			EPA 300.0	WCAj/4990
J1906329007	19136-MW-12A			EPA 300.0	WCAj/4990
J1906329008	19136-MW-12B			EPA 300.0	WCAj/4990
J1906329009	19136-MW-13A			EPA 300.0	WCAj/4990
J1906329010	19136-MW-13B			EPA 300.0	WCAj/4990
J1906329011	19136-MW-22AR			EPA 300.0	WCAj/4990
J1906329012	19136-MW-22BR			EPA 300.0	WCAj/4990
J1906329013	19136-MW-24A			EPA 300.0	WCAj/4990
J1906329014	19136-MW-24B			EPA 300.0	WCAj/4990
J1906329001	19136-MW-7A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329002	19136-MW-7B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329003	19136-MW-8A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329004	19136-MW-8B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329005	19136-MW-9A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329006	19136-MW-9B	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329007	19136-MW-12A	SW-846 3010A	DGMj/3420	SW-846 6020	ICMj/1885
J1906329008	19136-MW-12B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329009	19136-MW-13A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329010	19136-MW-13B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329011	19136-MW-22AR	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329012	19136-MW-22BR	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329013	19136-MW-24A	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329014	19136-MW-24B	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886
J1906329015	19136-Dup-1	SW-846 3010A	DGMj/3421	SW-846 6020	ICMj/1886

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329013	19136-MW-24A			EPA 300.0	WCAj/5024
J1906329001	19136-MW-7A			SM 2540 C	WCAj/5025
J1906329002	19136-MW-7B			SM 2540 C	WCAj/5025
J1906329003	19136-MW-8A			SM 2540 C	WCAj/5025
J1906329004	19136-MW-8B			SM 2540 C	WCAj/5025
J1906329005	19136-MW-9A			SM 2540 C	WCAj/5025
J1906329001	19136-MW-7A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329002	19136-MW-7B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329003	19136-MW-8A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329004	19136-MW-8B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329005	19136-MW-9A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329006	19136-MW-9B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329007	19136-MW-12A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329008	19136-MW-12B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329009	19136-MW-13A	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329010	19136-MW-13B	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329011	19136-MW-22AR	SW-846 3010A	DGMj/3435	SW-846 6010	ICPj/1979
J1906329012	19136-MW-22BR	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329013	19136-MW-24A	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329014	19136-MW-24B	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329015	19136-Dup-1	SW-846 3010A	DGMj/3436	SW-846 6010	ICPj/1982
J1906329006	19136-MW-9B			SM 2540 C	WCAj/5032
J1906329007	19136-MW-12A			SM 2540 C	WCAj/5032
J1906329008	19136-MW-12B			SM 2540 C	WCAj/5032
J1906329009	19136-MW-13A			SM 2540 C	WCAj/5032
J1906329010	19136-MW-13B			SM 2540 C	WCAj/5032
J1906329011	19136-MW-22AR			SM 2540 C	WCAj/5032
J1906329012	19136-MW-22BR			SM 2540 C	WCAj/5032
J1906329013	19136-MW-24A			SM 2540 C	WCAj/5032

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329014	19136-MW-24B			SM 2540 C	WCAj/5032
J1906329015	19136-Dup-1			SM 2540 C	WCAj/5032
J1906329001	19136-MW-7A			EPA 350.1	WCAg/6571
J1906329002	19136-MW-7B			EPA 350.1	WCAg/6571
J1906329003	19136-MW-8A			EPA 350.1	WCAg/6571
J1906329004	19136-MW-8B			EPA 350.1	WCAg/6571
J1906329005	19136-MW-9A			EPA 350.1	WCAg/6571
J1906329006	19136-MW-9B			EPA 350.1	WCAg/6572
J1906329007	19136-MW-12A			EPA 350.1	WCAg/6572
J1906329008	19136-MW-12B			EPA 350.1	WCAg/6572
J1906329009	19136-MW-13A			EPA 350.1	WCAg/6572
J1906329010	19136-MW-13B			EPA 350.1	WCAg/6572
J1906329011	19136-MW-22AR			EPA 350.1	WCAg/6572
J1906329012	19136-MW-22BR			EPA 350.1	WCAg/6572
J1906329013	19136-MW-24A			EPA 350.1	WCAg/6572
J1906329014	19136-MW-24B			EPA 350.1	WCAg/6572
J1906329015	19136-Dup-1			EPA 350.1	WCAg/6572
J1906329001	19136-MW-7A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329002	19136-MW-7B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329003	19136-MW-8A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329004	19136-MW-8B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329005	19136-MW-9A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329006	19136-MW-9B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329007	19136-MW-12A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329008	19136-MW-12B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329009	19136-MW-13A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329010	19136-MW-13B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329011	19136-MW-22AR	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329012	19136-MW-22BR	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329013	19136-MW-24A	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329014	19136-MW-24B	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526

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Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329015	19136-Dup-1	SW-846 7470A	DGMj/3454	SW-846 7470A	CVAj/1526
J1906329001	19136-MW-7A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329002	19136-MW-7B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329003	19136-MW-8A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329004	19136-MW-8B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329005	19136-MW-9A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329006	19136-MW-9B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329007	19136-MW-12A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329008	19136-MW-12B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329009	19136-MW-13A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329010	19136-MW-13B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329011	19136-MW-22AR	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329012	19136-MW-22BR	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329013	19136-MW-24A	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329014	19136-MW-24B	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329015	19136-Dup-1	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329016	19136-TripBlank-5	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329017	19136-TripBlank-6	SW-846 5030B	MSVj/3639	SW-846 8260B	MSVj/3640
J1906329001	19136-MW-7A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329002	19136-MW-7B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329003	19136-MW-8A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329004	19136-MW-8B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329005	19136-MW-9A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329006	19136-MW-9B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329007	19136-MW-12A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329008	19136-MW-12B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329009	19136-MW-13A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329010	19136-MW-13B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329011	19136-MW-22AR	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329012	19136-MW-22BR	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329013	19136-MW-24A	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329014	19136-MW-24B	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906329 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906329015	19136-Dup-1	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329016	19136-TripBlank-5	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642
J1906329017	19136-TripBlank-6	SW-846 5030B	MSVj/3641	SW-846 8260B (SIM)	MSVj/3642

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 81

7.1597

* J 1 9 0 6 3 2 9 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6143
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Stapley + Ronna Abbott
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	1 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)

P.O. Number/Project Number:

Project Location:

FDEP Facility No: 89544

Project Name and Address: J.E.D. SWDF
1501 Omni Way
St. Cloud, FL

Special Instructions: Jax Profile: 31172

■ ADaPT ☐ EQuIS

ANALYSIS REQUIRED

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							LABORATORY I.D. NUMBER
									App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
									HCL	HNO3	Ice	H2SO4							
19136-MW-7A		G	5/16/19	0832	GW	6			3	1	1	1							001
19136-MW-7B				0814															002
19136-MW-8A				0944															003
19136-MW-8B				0922															004
19136-MW-9A				1100															005
19136-MW-9B				1038															006
19136-MW-12A				1355															007
19136-MW-12B				1337															008
19136-MW-13A				1155															009
19136-MW-13B		G	5/16/19	1330	GW	6			3	1	1	1							010

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		5/16/19	1630	FedEx	5/16/19	1630
2	FedEx	5-17-19	8:35		5-17-19	8:35
3						
4						

FOR DRINKING WATER USE:

(When PWS information not otherwise supplied) PWS ID:

Contact Person: Phone:

Supplier of Water:

Site-Address:

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Alt
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 35
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 3221
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.88
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 323
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.63

* J 1 9 0 6 3 2 9 *

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-468-6141
FAX:	
Contact:	Kirk Wills
Sampled By:	Neil Stapley + Brian Abbott
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	2 of 2

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF 1503
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							LABORATORY I.D. NUMBER
								ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
									HCL	HNO3	Ice	H2SO4							
19136-MW-22AR		G	5/16/19	1232	GW	6			3	1	1	1							011
19136-MW-22BR		↓	↓	1210	↓	↓			↓	↓	↓	↓							012
19136-MW-34A				1408															013
19136-MW-34B		↓	↓	1346	↓					↓	↓	↓							014
19136-Dup-1		G	5/16/19	0001	GW	6				1	1	1							015
19136-Trip Blank-5	Includes 7A, 7B, 8A, 8B, 12A, 12B, Dup-1	–	–	–	DI H2O	3			↓										016
19136-Trip Blank-6	Includes 9A, 9B, 12A, 12B, 22AR, 22BR, 34A 34B.	–	–	–	DI H2O	3			3										017

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	5/16/19	1630	FedEx	5/16/19	1630
2	FedEx	5-17-19	8:35	[signature]	5-17-19	8:35
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID
Contact Person Phone:
Supplier of Water
Site-Address

Thursday, May 30, 2019 4:31:21 PM

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J-E-D Landfill

Date/Time Rcvd: 5-17-19 8:35 Log-In request number: J1906329

Received by: BA Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe):

Type: ☒ Cooler ☐ Box ☐ Other (describe)

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 7470A

Preparation: SW-846 7470A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Duplicates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of Mercury for J1906329001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

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Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank (MB) contained low levels of Vanadium above the Method Detection Limit (MDL). In accordance with AEL QA policy, all sample results found in the Method Blank are flagged with a V qualifier to indicate the data is estimated. All sample results are below Florida GCTL for this analyte. No further corrective action was required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Fax (904) 363-9354

Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The upper control criterion was exceeded for several analytes in the matrix spike analysis for J1906329007. The error associated with elevated recovery equates to a high bias.
The quality of the data is not significantly affected. The sample was J4 qualified accordingly and no further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Fax (904) 363-9354

Project No.: J1906329

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: The upper control criterion was exceeded for 1,2-Dibromo-3-Chloropropane in Continuing Calibration Verification (CCV) standards for analytical batch 3642, indicating increased sensitivity. The client samples reported in this batch did not contain the analytes in question. Since the apparent problem equates to a potential high bias, the data quality is not affected. No further corrective action was required.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The spike recovery of 1,2-Dibromo-3-Chloropropane for the Laboratory Control Sample (LCS) and Duplicate (LCSD) were outside the upper control criterion. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was required.

The upper control criterion was exceeded for 1,2-Dibromo-3-Chloropropane in the matrix spike for J1906329002. The analyte in question was not detected in the associated client samples. The error associated with elevated recovery equates to a high bias. The quality of the data is not affected. No further corrective action was required.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL32216
Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

June 6, 2019

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Dear Kirk Wills:

Enclosed are the analytical results for sample(s) received by the laboratory on Saturday, May 18, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

Craig Myers - Client Services Manager
CMyers@AELLab.com

Enclosures

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Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1906370001	19137-MW-10A	Water	5/17/2019 11:00	5/18/2019 10:05
J1906370002	19137-MW-10B	Water	5/17/2019 10:30	5/18/2019 10:05
J1906370003	19137-MW-11A	Water	5/17/2019 09:00	5/18/2019 10:05
J1906370004	19137-MW-11B	Water	5/17/2019 08:35	5/18/2019 10:05
J1906370005	19137-CW-2A	Water	5/17/2019 09:17	5/18/2019 10:05
J1906370006	19137-CW-3A	Water	5/17/2019 08:30	5/18/2019 10:05
J1906370007	19137-DUP-2	Water	5/17/2019 00:01	5/18/2019 10:05
J1906370008	19137-EQ-2	Water	5/17/2019 10:00	5/18/2019 10:05
J1906370009	19137-TripBlank-7	Water	5/17/2019 00:00	5/18/2019 10:05

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370001** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10A** Date Collected: 05/17/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab	RegLmt
METALS									
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010								
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:20	J	
Barium	**63**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:20	J	
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:20	J	
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:20	J	
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:13	J	
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:20	J	
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:20	J	
Iron	**17000**		**ug/L**	**1**	400	100	5/24/2019 13:20	J	
Lead	**7.4**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:13	J	
Nickel	**6.1**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:20	J	
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:20	J	
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:20	J	
Sodium	**26**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:20	J	
Vanadium	**3.2**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:13	J	
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:20	J	
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020								
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:12	J	
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:12	J	
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A								
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:05	J	
VOLATILES									
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/31/2019 10:24	J	
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/31/2019 10:24		J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/31/2019 10:24	J	
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/31/2019 10:24	J	
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/31/2019 10:24	J	
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 10:24	J	
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/31/2019 10:24	J	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370001** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10A** Date Collected: 05/17/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 10:24	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/31/2019 10:24	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/31/2019 10:24	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/31/2019 10:24	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/31/2019 10:24	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/31/2019 10:24	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/31/2019 10:24	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/31/2019 10:24	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/31/2019 10:24	J
Benzene	**4.3**		**ug/L**	**1**	1.0	0.16	5/31/2019 10:24	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/31/2019 10:24	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/31/2019 10:24	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/31/2019 10:24	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/31/2019 10:24	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/31/2019 10:24	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 10:24	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/31/2019 10:24	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 10:24	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 10:24	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/31/2019 10:24	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 10:24	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/31/2019 10:24	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/31/2019 10:24	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/31/2019 10:24	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/31/2019 10:24	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 10:24	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 10:24	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 10:24	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/31/2019 10:24	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/31/2019 10:24	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/31/2019 10:24	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 10:24	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/31/2019 10:24	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/31/2019 10:24	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 10:24	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 10:24	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/31/2019 10:24	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/31/2019 10:24	J
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	70-128		5/31/2019 10:24	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		5/31/2019 10:24	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370001** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-10A** Date Collected: 05/17/19 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		5/31/2019 10:24	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/31/2019 10:24	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/31/2019 10:24	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		5/31/2019 10:24	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 10:24	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/31/2019 10:24	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**24**		**mg/L**	**2**	10	1.0	5/18/2019 14:11	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/18/2019 14:11	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**22**		**mg/L**	**50**	0.50	0.40	5/28/2019 15:34	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**640**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:23	J
Barium	**38**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:23	J
Beryllium	**2.0**		**ug/L**	**1**	2.0	0.50	5/24/2019 13:23	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:23	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:17	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**7.0**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:23	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:23	J
Iron	**12000**		**ug/L**	**1**	400	100	5/24/2019 13:23	J
Lead	**4.7**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:17	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:23	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:23	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:23	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:23	J
Vanadium	**4.7**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:17	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:34	J
Thallium	**0.067**	**I**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:34	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:08	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/31/2019 09:55	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/31/2019 09:55	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/31/2019 09:55	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/31/2019 09:55	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/31/2019 09:55	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:55	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/31/2019 09:55	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:55	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/31/2019 09:55	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/31/2019 09:55	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/31/2019 09:55	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/31/2019 09:55	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/31/2019 09:55	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/31/2019 09:55	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/31/2019 09:55	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/31/2019 09:55	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**7.6**		**ug/L**	**1**	1.0	0.16	5/31/2019 09:55	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/31/2019 09:55	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/31/2019 09:55	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/31/2019 09:55	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/31/2019 09:55	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/31/2019 09:55	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:55	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/31/2019 09:55	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:55	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:55	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/31/2019 09:55	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:55	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/31/2019 09:55	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/31/2019 09:55	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/31/2019 09:55	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	5/31/2019 09:55	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:55	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:55	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:55	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/31/2019 09:55	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/31/2019 09:55	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/31/2019 09:55	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:55	J
Xylene (Total)	**1.2**	**I**	**ug/L**	**1**	3.0	0.53	5/31/2019 09:55	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/31/2019 09:55	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 09:55	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:55	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/31/2019 09:55	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/31/2019 09:55	J
1,2-Dichloroethane-d4 (S)	**115**		**%**	**1**	70-128		5/31/2019 09:55	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		5/31/2019 09:55	
Bromofluorobenzene (S)	**117**		**%**	**1**	86-123		5/31/2019 09:55	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/31/2019 09:55	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/31/2019 09:55	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		5/31/2019 09:55	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		5/31/2019 09:55	
Bromofluorobenzene (S)	**123**		**%**	**1**	80-129		5/31/2019 09:55	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370002** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-10B** Date Collected: 05/17/19 10:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**2**	10	1.0	5/18/2019 14:33	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/18/2019 14:33	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.7**		**mg/L**	**20**	0.20	0.16	5/28/2019 15:38	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**920**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:34	J
Barium	**22**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:34	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:34	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:34	J
Chromium	**3.2**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:28	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:34	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:34	J
Iron	**8100**		**ug/L**	**1**	400	100	5/24/2019 13:34	J
Lead	**7.9**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:28	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:34	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:34	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:34	J
Sodium	**14**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:34	J
Vanadium	**6.8**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:28	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:34	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.14**	**I**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:38	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:38	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:11	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 12:01	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 12:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 12:01	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 12:01	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 12:01	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:01	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 12:01	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:01	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 12:01	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 12:01	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 12:01	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 12:01	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 12:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 12:01	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 12:01	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 12:01	J
Benzene	**1.8**	**Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:01	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 12:01	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 12:01	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 12:01	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 12:01	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 12:01	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:01	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 12:01	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:01	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:01	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 12:01	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:01	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 12:01	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 12:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 12:01	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 12:01	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:01	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:01	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:01	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 12:01	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 12:01	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 12:01	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:01	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 12:01	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 12:01	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:01	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:01	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 12:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 12:01	J
1,2-Dichloroethane-d4 (S)	**112**	**Q**	**%**	**1**	70-128		5/31/2019 12:01	
Toluene-d8 (S)	**105**	**Q**	**%**	**1**	77-119		5/31/2019 12:01	
Bromofluorobenzene (S)	**118**	**Q**	**%**	**1**	86-123		5/31/2019 12:01	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q,J4**	**ug/L**	**1**	0.20	0.11	5/31/2019 12:01	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 12:01	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		5/31/2019 12:01	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 12:01	
Bromofluorobenzene (S)	**124**		**%**	**1**	80-129		5/31/2019 12:01	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**1**	5.0	0.50	5/18/2019 14:54	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/18/2019 14:54	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.1**		**mg/L**	**10**	0.10	0.080	5/28/2019 15:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370003** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-11A** Date Collected: 05/17/19 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**380**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370004** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-MW-11B** Date Collected: 05/17/19 08:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:37	J
Barium	**17**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:37	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:37	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:37	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:32	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:37	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:37	J
Iron	**360**	**I**	**ug/L**	**1**	400	100	5/24/2019 13:37	J
Lead	**4.4**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:37	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:37	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:37	J
Sodium	**16**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:37	J
Vanadium	**2.3**	**I,V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:32	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:37	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:43	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:14	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370004** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11B** Date Collected: 05/17/19 08:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 12:30	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 12:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 12:30	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 12:30	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 12:30	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:30	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 12:30	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:30	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 12:30	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 12:30	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 12:30	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 12:30	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 12:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 12:30	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 12:30	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 12:30	J
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:30	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 12:30	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 12:30	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 12:30	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 12:30	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 12:30	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:30	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 12:30	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:30	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 12:30	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 12:30	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 12:30	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 12:30	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 12:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 12:30	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 12:30	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:30	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 12:30	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 12:30	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 12:30	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370004** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-MW-11B** Date Collected: 05/17/19 08:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 12:30	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 12:30	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:30	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 12:30	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 12:30	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 12:30	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 12:30	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 12:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 12:30	J
1,2-Dichloroethane-d4 (S)	**115**	**Q**	**%**	**1**	70-128		5/31/2019 12:30	
Toluene-d8 (S)	**104**	**Q**	**%**	**1**	77-119		5/31/2019 12:30	
Bromofluorobenzene (S)	**114**	**Q**	**%**	**1**	86-123		5/31/2019 12:30	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 12:30	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 12:30	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		5/31/2019 12:30	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		5/31/2019 12:30	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/31/2019 12:30	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	5/18/2019 15:15	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/18/2019 15:15	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.04**		**mg/L**	**1**	0.010	0.0080	5/28/2019 15:37	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**82**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370005** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-2A** Date Collected: 05/17/19 09:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:41	J
Barium	**70**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:41	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:41	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:41	J
Chromium	**4.5**	**I**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:36	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:41	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:41	J
Iron	**180**	**I**	**ug/L**	**1**	400	100	5/24/2019 13:41	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 13:36	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:41	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:41	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:41	J
Sodium	**180**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:41	J
Vanadium	**23**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:36	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:41	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.18**	**I**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:47	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:47	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:18	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 13:07	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 13:07	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 13:07	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 13:07	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 13:07	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:07	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 13:07	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370005** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-2A** Date Collected: 05/17/19 09:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:07	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 13:07	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 13:07	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 13:07	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 13:07	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 13:07	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 13:07	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 13:07	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 13:07	J
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:07	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 13:07	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 13:07	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 13:07	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 13:07	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 13:07	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:07	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 13:07	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:07	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:07	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 13:07	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:07	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 13:07	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 13:07	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 13:07	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 13:07	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:07	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:07	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:07	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 13:07	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 13:07	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 13:07	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:07	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 13:07	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 13:07	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:07	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:07	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 13:07	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 13:07	J
1,2-Dichloroethane-d4 (S)	**112**	**Q**	**%**	**1**	70-128		5/31/2019 13:07	
Toluene-d8 (S)	**105**	**Q**	**%**	**1**	77-119		5/31/2019 13:07	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370005** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-CW-2A** Date Collected: 05/17/19 09:17

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**	**Q**	**%**	**1**	86-123		5/31/2019 13:07	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 13:07	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 13:07	J
1,2-Dichloroethane-d4 (S)	**92**		**%**	**1**	77-125		5/31/2019 13:07	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 13:07	
Bromofluorobenzene (S)	**119**		**%**	**1**	80-129		5/31/2019 13:07	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**320**		**mg/L**	**10**	50	5.0	5/18/2019 15:57	J
Nitrate (as N)	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	5/18/2019 15:57	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**18**		**mg/L**	**20**	0.20	0.16	5/28/2019 14:27	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:44	J
Barium	**51**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:44	J
Beryllium	**1.0**	**I**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:44	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:44	J
Chromium	**14**		**ug/L**	**1**	8.0	2.0	5/28/2019 13:39	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:44	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:44	J
Iron	**4900**		**ug/L**	**1**	400	100	5/24/2019 13:44	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 13:39	J
Nickel	**7.8**	**I**	**ug/L**	**1**	24	6.0	5/24/2019 13:44	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:44	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:44	J
Sodium	**310**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:44	J
Vanadium	**33**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:39	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:44	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.26**	**I**	**ug/L**	**1**	0.70	0.11	5/30/2019 15:51	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 15:51	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:27	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 13:36	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 13:36	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 13:36	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 13:36	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 13:36	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:36	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 13:36	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:36	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 13:36	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 13:36	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 13:36	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 13:36	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 13:36	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 13:36	J
Acetone	**7.7**	**Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 13:36	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 13:36	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:36	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 13:36	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 13:36	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 13:36	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 13:36	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 13:36	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:36	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 13:36	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:36	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 13:36	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 13:36	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 13:36	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 13:36	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 13:36	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 13:36	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 13:36	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:36	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 13:36	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 13:36	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 13:36	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 13:36	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 13:36	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:36	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 13:36	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 13:36	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 13:36	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 13:36	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 13:36	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 13:36	J
1,2-Dichloroethane-d4 (S)	**117**	**Q**	**%**	**1**	70-128		5/31/2019 13:36	
Toluene-d8 (S)	**106**	**Q**	**%**	**1**	77-119		5/31/2019 13:36	
Bromofluorobenzene (S)	**115**	**Q**	**%**	**1**	86-123		5/31/2019 13:36	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 13:36	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 13:36	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		5/31/2019 13:36	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		5/31/2019 13:36	
Bromofluorobenzene (S)	**121**		**%**	**1**	80-129		5/31/2019 13:36	

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370006** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-CW-3A** Date Collected: 05/17/19 08:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**580**		**mg/L**	**20**	100	10	5/18/2019 16:18	J
Nitrate (as N)	**1.0**	**U**	**mg/L**	**20**	10	1.0	5/18/2019 16:18	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**14**		**mg/L**	**20**	0.20	0.16	5/28/2019 14:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1600**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:48	J
Barium	**38**		**ug/L**	**1**	4.0	1.0	5/24/2019 13:48	J
Beryllium	**2.1**		**ug/L**	**1**	2.0	0.50	5/24/2019 13:48	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:48	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:43	J
Cobalt	**6.7**	**I**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:48	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:48	J
Iron	**12000**		**ug/L**	**1**	400	100	5/24/2019 13:48	J
Lead	**4.6**	**I**	**ug/L**	**1**	12	3.0	5/28/2019 13:43	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:48	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:48	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:48	J
Sodium	**17**		**mg/L**	**1**	1.4	0.35	5/24/2019 13:48	J
Vanadium	**4.9**	**V**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:43	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:48	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 16:05	J
Thallium	**0.066**	**I**	**ug/L**	**1**	0.20	0.057	5/30/2019 16:05	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:31	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 14:13	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 14:13	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 14:13	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 14:13	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 14:13	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:13	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 14:13	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:13	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 14:13	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 14:13	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 14:13	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 14:13	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 14:13	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 14:13	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 14:13	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 14:13	J
Benzene	**7.2**	**Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:13	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 14:13	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 14:13	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 14:13	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 14:13	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 14:13	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:13	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 14:13	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:13	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:13	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 14:13	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:13	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 14:13	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 14:13	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 14:13	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 14:13	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:13	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:13	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:13	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 14:13	J
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 14:13	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 14:13	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:13	J
Xylene (Total)	**1.2**	**I,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 14:13	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 14:13	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:13	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:13	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 14:13	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 14:13	J
1,2-Dichloroethane-d4 (S)	**110**	**Q**	**%**	**1**	70-128		5/31/2019 14:13	
Toluene-d8 (S)	**104**	**Q**	**%**	**1**	77-119		5/31/2019 14:13	
Bromofluorobenzene (S)	**113**	**Q**	**%**	**1**	86-123		5/31/2019 14:13	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 14:13	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 14:13	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		5/31/2019 14:13	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		5/31/2019 14:13	
Bromofluorobenzene (S)	**118**		**%**	**1**	80-129		5/31/2019 14:13	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**18**		**mg/L**	**2**	10	1.0	5/18/2019 16:39	J
Nitrate (as N)	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	5/18/2019 16:39	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.6**		**mg/L**	**10**	0.10	0.080	5/28/2019 14:29	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370007** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-DUP-2** Date Collected: 05/17/19 00:01

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**950**		**mg/L**	**1**	10	10	5/22/2019 16:45	J

Lab ID: **J1906370008** Date Received: 05/18/19 10:05 Matrix: Water
Sample ID: **19137-EQ-2** Date Collected: 05/17/19 10:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	40	9.0	5/24/2019 13:51	J
Barium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:51	J
Beryllium	**0.50**	**U**	**ug/L**	**1**	2.0	0.50	5/24/2019 13:51	J
Cadmium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/24/2019 13:51	J
Chromium	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/28/2019 13:47	J
Cobalt	**2.0**	**U**	**ug/L**	**1**	8.0	2.0	5/24/2019 13:51	J
Copper	**4.0**	**U**	**ug/L**	**1**	16	4.0	5/24/2019 13:51	J
Iron	**100**	**U**	**ug/L**	**1**	400	100	5/24/2019 13:51	J
Lead	**3.0**	**U**	**ug/L**	**1**	12	3.0	5/28/2019 13:47	J
Nickel	**6.0**	**U**	**ug/L**	**1**	24	6.0	5/24/2019 13:51	J
Selenium	**40**	**U**	**ug/L**	**1**	160	40	5/24/2019 13:51	J
Silver	**10**	**U**	**ug/L**	**1**	40	10	5/24/2019 13:51	J
Sodium	**0.35**	**U**	**mg/L**	**1**	1.4	0.35	5/24/2019 13:51	J
Vanadium	**1.0**	**U**	**ug/L**	**1**	4.0	1.0	5/28/2019 13:47	J
Zinc	**50**	**U**	**ug/L**	**1**	200	50	5/24/2019 13:51	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.11**	**U**	**ug/L**	**1**	0.70	0.11	5/30/2019 16:09	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	5/30/2019 16:09	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.011**	**U**	**ug/L**	**1**	0.10	0.011	5/24/2019 19:34	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370008** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-EQ-2** Date Collected: 05/17/19 10:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U**	**ug/L**	**1**	1.0	0.54	5/31/2019 09:18	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	5/31/2019 09:18	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	5/31/2019 09:18	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	5/31/2019 09:18	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	5/31/2019 09:18	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:18	J
1,2,3-Trichloropropane	**0.91**	**U**	**ug/L**	**1**	1.0	0.91	5/31/2019 09:18	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:18	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	3.0	0.23	5/31/2019 09:18	J
1,2-Dichloropropane	**0.66**	**U**	**ug/L**	**1**	1.0	0.66	5/31/2019 09:18	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	3.0	0.22	5/31/2019 09:18	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	5/31/2019 09:18	J
2-Hexanone	**0.71**	**U**	**ug/L**	**1**	5.0	0.71	5/31/2019 09:18	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	5.0	0.47	5/31/2019 09:18	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	5/31/2019 09:18	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	5.0	1.1	5/31/2019 09:18	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 09:18	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	5/31/2019 09:18	J
Bromodichloromethane	**0.46**	**U**	**ug/L**	**1**	1.0	0.46	5/31/2019 09:18	J
Bromoform	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	5/31/2019 09:18	J
Bromomethane	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	5/31/2019 09:18	J
Carbon Disulfide	**0.67**	**U**	**ug/L**	**1**	1.0	0.67	5/31/2019 09:18	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:18	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	3.0	0.21	5/31/2019 09:18	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:18	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	3.0	0.18	5/31/2019 09:18	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	5/31/2019 09:18	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	5/31/2019 09:18	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	5/31/2019 09:18	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	5/31/2019 09:18	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	5.0	0.16	5/31/2019 09:18	J
Methylene Chloride	**7.8**		**ug/L**	**1**	5.0	2.5	5/31/2019 09:18	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:18	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	3.0	0.36	5/31/2019 09:18	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	5/31/2019 09:18	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	3.0	0.29	5/31/2019 09:18	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370008** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-EQ-2** Date Collected: 05/17/19 10:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	5/31/2019 09:18	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	5/31/2019 09:18	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:18	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	3.0	0.53	5/31/2019 09:18	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	3.0	0.24	5/31/2019 09:18	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	5/31/2019 09:18	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	3.0	0.20	5/31/2019 09:18	J
trans-1,3-Dichloropropylene	**0.21**	**U**	**ug/L**	**1**	5.0	0.21	5/31/2019 09:18	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	5.0	1.8	5/31/2019 09:18	J
1,2-Dichloroethane-d4 (S)	**115**		**%**	**1**	70-128		5/31/2019 09:18	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		5/31/2019 09:18	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		5/31/2019 09:18	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U**	**ug/L**	**1**	0.20	0.11	5/31/2019 09:18	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	5/31/2019 09:18	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		5/31/2019 09:18	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		5/31/2019 09:18	
Bromofluorobenzene (S)	**120**		**%**	**1**	80-129		5/31/2019 09:18	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	5/18/2019 17:00	J
Nitrate (as N)	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	5/18/2019 17:00	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.0080**	**U**	**mg/L**	**1**	0.010	0.0080	5/28/2019 14:31	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	5/22/2019 16:45	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370009** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-TripBlank-7** Date Collected: 05/17/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.54**	**U,Q**	**ug/L**	**1**	1.0	0.54	5/31/2019 14:43	J
1,1,1-Trichloroethane	**0.22**	**U,Q**	**ug/L**	**1**	1.0	0.22	5/31/2019 14:43	J
1,1,2,2-Tetrachloroethane	**0.20**	**U,Q**	**ug/L**	**1**	1.0	0.20	5/31/2019 14:43	J
1,1,2-Trichloroethane	**0.30**	**U,Q**	**ug/L**	**1**	1.0	0.30	5/31/2019 14:43	J
1,1-Dichloroethane	**0.14**	**U,Q**	**ug/L**	**1**	1.0	0.14	5/31/2019 14:43	J
1,1-Dichloroethylene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:43	J
1,2,3-Trichloropropane	**0.91**	**U,Q**	**ug/L**	**1**	1.0	0.91	5/31/2019 14:43	J
1,2-Dichlorobenzene	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:43	J
1,2-Dichloroethane	**0.23**	**U,Q**	**ug/L**	**1**	3.0	0.23	5/31/2019 14:43	J
1,2-Dichloropropane	**0.66**	**U,Q**	**ug/L**	**1**	1.0	0.66	5/31/2019 14:43	J
1,4-Dichlorobenzene	**0.22**	**U,Q**	**ug/L**	**1**	3.0	0.22	5/31/2019 14:43	J
2-Butanone (MEK)	**0.43**	**U,Q**	**ug/L**	**1**	5.0	0.43	5/31/2019 14:43	J
2-Hexanone	**0.71**	**U,Q**	**ug/L**	**1**	5.0	0.71	5/31/2019 14:43	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U,Q**	**ug/L**	**1**	5.0	0.47	5/31/2019 14:43	J
Acetone	**2.1**	**U,Q**	**ug/L**	**1**	5.0	2.1	5/31/2019 14:43	J
Acrylonitrile	**1.1**	**U,Q**	**ug/L**	**1**	5.0	1.1	5/31/2019 14:43	J
Benzene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:43	J
Bromochloromethane	**0.17**	**U,Q**	**ug/L**	**1**	1.0	0.17	5/31/2019 14:43	J
Bromodichloromethane	**0.46**	**U,Q**	**ug/L**	**1**	1.0	0.46	5/31/2019 14:43	J
Bromoform	**0.44**	**U,Q**	**ug/L**	**1**	5.0	0.44	5/31/2019 14:43	J
Bromomethane	**0.29**	**U,Q**	**ug/L**	**1**	1.0	0.29	5/31/2019 14:43	J
Carbon Disulfide	**0.67**	**U,Q**	**ug/L**	**1**	1.0	0.67	5/31/2019 14:43	J
Carbon Tetrachloride	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:43	J
Chlorobenzene	**0.21**	**U,Q**	**ug/L**	**1**	3.0	0.21	5/31/2019 14:43	J
Chloroethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:43	J
Chloroform	**0.18**	**U,Q**	**ug/L**	**1**	3.0	0.18	5/31/2019 14:43	J
Chloromethane	**0.21**	**U,Q**	**ug/L**	**1**	1.0	0.21	5/31/2019 14:43	J
Dibromochloromethane	**0.33**	**U,Q**	**ug/L**	**1**	1.0	0.33	5/31/2019 14:43	J
Dibromomethane	**0.26**	**U,Q**	**ug/L**	**1**	1.0	0.26	5/31/2019 14:43	J
Ethylbenzene	**0.24**	**U,Q**	**ug/L**	**1**	1.0	0.24	5/31/2019 14:43	J
Iodomethane (Methyl Iodide)	**0.16**	**U,Q**	**ug/L**	**1**	5.0	0.16	5/31/2019 14:43	J
Methylene Chloride	**2.5**	**U,Q**	**ug/L**	**1**	5.0	2.5	5/31/2019 14:43	J
Styrene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:43	J
Tetrachloroethylene (PCE)	**0.36**	**U,Q**	**ug/L**	**1**	3.0	0.36	5/31/2019 14:43	J
Toluene	**0.23**	**U,Q**	**ug/L**	**1**	1.0	0.23	5/31/2019 14:43	J
Trichloroethene	**0.29**	**U,Q**	**ug/L**	**1**	3.0	0.29	5/31/2019 14:43	J

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ANALYTICAL RESULTS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1906370009** Date Received: 05/18/19 10:05 Matrix: Water

Sample ID: **19137-TripBlank-7** Date Collected: 05/17/19 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichlorofluoromethane	**0.32**	**U,Q**	**ug/L**	**1**	1.0	0.32	5/31/2019 14:43	J
Vinyl Acetate	**0.19**	**U,Q**	**ug/L**	**1**	1.0	0.19	5/31/2019 14:43	J
Vinyl Chloride	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:43	J
Xylene (Total)	**0.53**	**U,Q**	**ug/L**	**1**	3.0	0.53	5/31/2019 14:43	J
cis-1,2-Dichloroethylene	**0.24**	**U,Q**	**ug/L**	**1**	3.0	0.24	5/31/2019 14:43	J
cis-1,3-Dichloropropene	**0.16**	**U,Q**	**ug/L**	**1**	1.0	0.16	5/31/2019 14:43	J
trans-1,2-Dichloroethylene	**0.20**	**U,Q**	**ug/L**	**1**	3.0	0.20	5/31/2019 14:43	J
trans-1,3-Dichloropropylene	**0.21**	**U,Q**	**ug/L**	**1**	5.0	0.21	5/31/2019 14:43	J
trans-1,4-Dichloro-2-butene	**1.8**	**U,Q**	**ug/L**	**1**	5.0	1.8	5/31/2019 14:43	J
1,2-Dichloroethane-d4 (S)	**110**	**Q**	**%**	**1**	70-128		5/31/2019 14:43	
Toluene-d8 (S)	**107**	**Q**	**%**	**1**	77-119		5/31/2019 14:43	
Bromofluorobenzene (S)	**110**	**Q**	**%**	**1**	86-123		5/31/2019 14:43	
Analysis Desc: 8260B SIM Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B (SIM)							
1,2-Dibromo-3-Chloropropane	**0.11**	**U,Q**	**ug/L**	**1**	0.20	0.11	5/31/2019 14:43	J
Ethylene Dibromide (EDB)	**0.020**	**U,Q**	**ug/L**	**1**	0.10	0.020	5/31/2019 14:43	J
1,2-Dichloroethane-d4 (S)	**91**		**%**	**1**	77-125		5/31/2019 14:43	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		5/31/2019 14:43	
Bromofluorobenzene (S)	**116**		**%**	**1**	80-129		5/31/2019 14:43	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
Q	Missed Hold Time
V	Method Blank Contamination
J4	Estimated Result

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5010 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3101111

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Nitrate (as N)	mg/L	0.050	0.050	U

LABORATORY CONTROL SAMPLE & LCSD: 3101112 3101113

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY										
Chloride	mg/L	20	22	22	109	109	90-110	0	10	
Nitrate (as N)	mg/L	2	2.2	2.1	110	107	90-110	3	10	

MATRIX SPIKE SAMPLE: 3101114 Original: J1906370004

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY							
Chloride	mg/L	29	20	49	97	90-110	
Nitrate (as N)	mg/L	0	2	2.2	108	90-110	

QC Batch: DGMj/3437 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 05/23/2019 03:30

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3103534

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	10	10	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	1.0	1.0	U
Beryllium	ug/L	0.50	0.50	U

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3103534

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cadmium	ug/L	1.0	1.0	U
Cobalt	ug/L	2.0	2.0	U
Chromium	ug/L	2.0	2.0	U
Copper	ug/L	4.0	4.0	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.35	0.35	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	3.0	3.0	U
Selenium	ug/L	40	40	U
Zinc	ug/L	50	50	U

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Vanadium	ug/L	2.2	1.0	I

LABORATORY CONTROL SAMPLE: 3103535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Silver	ug/L	200	190	94	80-120	
Arsenic	ug/L	200	180	89	80-120	
Barium	ug/L	20	19	94	80-120	
Beryllium	ug/L	10	8.7	87	80-120	
Cadmium	ug/L	20	19	94	80-120	
Cobalt	ug/L	40	38	94	80-120	
Chromium	ug/L	40	36	90	80-120	
Copper	ug/L	80	75	94	80-120	
Iron	ug/L	2000	1800	89	80-120	
Sodium	mg/L	7	6.8	97	80-120	
Nickel	ug/L	120	110	94	80-120	
Lead	ug/L	60	57	95	80-120	
Selenium	ug/L	800	730	91	80-120	
Vanadium	ug/L	20	20	101	80-120	
Zinc	ug/L	1000	910	91	80-120	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3103536 3103537 Original: J1906272015

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Silver	ug/L	0	200	190	190	93	95	75-125	1	20	
Arsenic	ug/L	0	200	190	190	94	95	75-125	1	20	
Barium	ug/L	65	20	82	84	89	97	75-125	2	20	
Beryllium	ug/L	0	10	9.3	9.5	93	95	75-125	2	20	
Cadmium	ug/L	1.7	20	20	21	93	95	75-125	1	20	
Cobalt	ug/L	0.7	40	38	38	94	95	75-125	1	20	
Chromium	ug/L	1	40	38	40	94	100	75-125	6	20	
Copper	ug/L	2	80	72	75	90	94	75-125	4	20	
Iron	ug/L	640	2000	2500	2500	93	95	75-125	2	20	
Sodium	mg/L	75	7	80	82	79	102	75-125	2	20	
Nickel	ug/L	9.2	120	120	120	93	95	75-125	2	20	
Lead	ug/L	3.7	60	58	57	90	89	75-125	1	20	
Selenium	ug/L	0	800	750	760	94	95	75-125	1	20	
Vanadium	ug/L	7.7	20	25	25	86	88	75-125	2	20	
Zinc	ug/L	10	1000	950	960	95	96	75-125	2	20	

QC Batch: WCAj/5032 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3104463

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 3104464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	300	310	104	85-115	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

SAMPLE DUPLICATE: 3104465 Original: J1906329006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	400	380	3	10	

QC Batch: DGMj/3456 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 05/24/2019 12:45
Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3106520

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.011	0.011	U

LABORATORY CONTROL SAMPLE: 3106521

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3106522 3106523 Original: J1906272020

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.0037	2	2.1	2.1	104	105	80-120	1	20	

QC Batch: DGMj/3459 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 05/29/2019 03:30
Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3108170

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3108170

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	0.11	0.11	U
Thallium	ug/L	0.057	0.057	U

LABORATORY CONTROL SAMPLE: 3108171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Antimony	ug/L	50	46	93	80-120	
Thallium	ug/L	50	43	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108172 3108173 Original: J1906370001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Antimony	ug/L	0.035	50	49	50	99	99	75-125	1	20	
Thallium	ug/L	0.016	50	46	47	92	94	75-125	2	20	

QC Batch: WCAg/6600 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008

METHOD BLANK: 3108183

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.0080	0.0080	U

LABORATORY CONTROL SAMPLE: 3108184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE: 3108184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ammonia (N)	mg/L	0.5	0.51	102	90-110	

LABORATORY CONTROL SAMPLE: 3108186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3108187 3108188 Original: J1906370001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	22	20	41	41	96	96	90-110	0	10	

QC Batch: MSVj/3659 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 05/31/2019 08:43

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008,

METHOD BLANK: 3112243

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Chloromethane	ug/L	0.21	0.21	U
Vinyl Chloride	ug/L	0.20	0.20	U
Bromomethane	ug/L	0.29	0.29	U
Chloroethane	ug/L	0.33	0.33	U
Trichlorofluoromethane	ug/L	0.32	0.32	U
Acetone	ug/L	2.1	2.1	U
1,1-Dichloroethylene	ug/L	0.18	0.18	U
Iodomethane (Methyl Iodide)	ug/L	0.16	0.16	U
Acrylonitrile	ug/L	1.1	1.1	U
Methylene Chloride	ug/L	2.5	2.5	U
Carbon Disulfide	ug/L	0.67	0.67	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U
1,1-Dichloroethane	ug/L	0.14	0.14	U
Vinyl Acetate	ug/L	0.19	0.19	U

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 3112243

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
2-Butanone (MEK)	ug/L	0.43	0.43	U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24	U
Bromochloromethane	ug/L	0.17	0.17	U
Chloroform	ug/L	0.18	0.18	U
1,2-Dichloroethane	ug/L	0.23	0.23	U
1,1,1-Trichloroethane	ug/L	0.22	0.22	U
Carbon Tetrachloride	ug/L	0.36	0.36	U
Benzene	ug/L	0.16	0.16	U
Dibromomethane	ug/L	0.26	0.26	U
1,2-Dichloropropane	ug/L	0.66	0.66	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.46	0.46	U
cis-1,3-Dichloropropene	ug/L	0.16	0.16	U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47	U
trans-1,3-Dichloropropylene	ug/L	0.21	0.21	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.71	0.71	U
Dibromochloromethane	ug/L	0.33	0.33	U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36	U
1,1,1,2-Tetrachloroethane	ug/L	0.54	0.54	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.44	0.44	U
Styrene	ug/L	0.23	0.23	U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20	U
1,2,3-Trichloropropane	ug/L	0.91	0.91	U
1,4-Dichlorobenzene	ug/L	0.22	0.22	U
1,2-Dichlorobenzene	ug/L	0.18	0.18	U
trans-1,4-Dichloro-2-butene	ug/L	1.8	1.8	U
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	115	70-128	
Toluene-d8 (S)	%	104	77-119	
Bromofluorobenzene (S)	%	114	86-123	

LABORATORY CONTROL SAMPLE & LCSD: 3112244 3112245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Chloromethane	ug/L	20	16	18	82	89		8		
Vinyl Chloride	ug/L	20	17	17	86	85	70-130	1	20	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3112244 3112245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromomethane	ug/L	20	21	16	105	78		30		
Chloroethane	ug/L	20	19	17	95	85		12		
Trichlorofluoromethane	ug/L	20	19	15	95	73		27		
Acetone	ug/L	20	17	17	83	83		0		
1,1-Dichloroethylene	ug/L	20	20	14	100	72	70-130	32	20	
Iodomethane (Methyl Iodide)	ug/L	20	15	13	76	66		14		
Acrylonitrile	ug/L	20	14	15	72	77		7		
Methylene Chloride	ug/L	20	21	20	104	102		2		
Carbon Disulfide	ug/L	20	17	19	87	97		10		
trans-1,2-Dichloroethylene	ug/L	20	20	14	99	72		32		
1,1-Dichloroethane	ug/L	20	20	15	100	75		28		
Vinyl Acetate	ug/L	20	7.5	14	38	71		62		
2-Butanone (MEK)	ug/L	20	15	15	77	76		2		
cis-1,2-Dichloroethylene	ug/L	20	18	14	92	72	70-130	24	20	
Bromochloromethane	ug/L	20	19	19	94	94		1		
Chloroform	ug/L	20	18	17	89	85	70-130	5	20	
1,2-Dichloroethane	ug/L	20	20	13	101	66		42		
1,1,1-Trichloroethane	ug/L	20	20	15	99	76		26		
Carbon Tetrachloride	ug/L	20	19	18	96	88		9		
Benzene	ug/L	20	19	19	94	95	70-130	1	20	
Dibromomethane	ug/L	20	18	16	88	81		8		
1,2-Dichloropropane	ug/L	20	20	16	99	78		25		
Trichloroethene	ug/L	20	22	16	108	79	70-130	31	20	
Bromodichloromethane	ug/L	20	18	18	90	90		0		
cis-1,3-Dichloropropene	ug/L	20	16	18	82	92		12		
4-Methyl-2-pentanone (MIBK)	ug/L	20	14	13	72	67		7		
trans-1,3-Dichloropropylene	ug/L	20	16	18	79	89		12		
1,1,2-Trichloroethane	ug/L	20	17	16	86	81		6		
Toluene	ug/L	20	20	17	101	86	70-130	16	20	
2-Hexanone	ug/L	20	17	15	85	76		11		
Dibromochloromethane	ug/L	20	20	20	102	100		2		
Tetrachloroethylene (PCE)	ug/L	20	20	21	102	105	70-130	2	20	
1,1,1,2-Tetrachloroethane	ug/L	20	20	20	102	98		4		
Chlorobenzene	ug/L	20	20	20	103	101	70-130	2	20	
Ethylbenzene	ug/L	20	22	18	109	88	70-130	22	20	
Bromoform	ug/L	20	18	21	91	105		14		
Styrene	ug/L	20	20	18	101	90		11		
1,1,2,2-Tetrachloroethane	ug/L	20	14	18	71	90		24		
1,2,3-Trichloropropane	ug/L	20	17	19	84	93		10		
1,4-Dichlorobenzene	ug/L	20	21	21	107	105		2		
1,2-Dichlorobenzene	ug/L	20	23	21	115	105	70-130	10	20	
Xylene (Total)	ug/L	60	66	53	109	88	70-130	22	20	
1,2-Dichloroethane-d4 (S)	%				110	77	70-128	35		
Toluene-d8 (S)	%				108	98	77-119	10		

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

LABORATORY CONTROL SAMPLE & LCSD: 3112244 3112245

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Bromofluorobenzene (S)	%				110	90	86-123	20		

QC Batch: MSVj/3661 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 05/31/2019 07:00

Associated Lab Samples: J1906370001, J1906370002, J1906370003, J1906370004, J1906370005, J1906370006, J1906370007, J1906370008,

METHOD BLANK: 3112251

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
VOLATILES				
Ethylene Dibromide (EDB)	ug/L	0.020	0.020	U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11	U
1,2-Dichloroethane-d4 (S)	%	100	77-125	
Toluene-d8 (S)	%	109	80-121	
Bromofluorobenzene (S)	%	117	80-129	

LABORATORY CONTROL SAMPLE & LCSD: 3112252 3112253

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Ethylene Dibromide (EDB)	ug/L	0.8	0.79	0.90	99	113	70-130	13	30	
1,2-Dibromo-3-Chloropropane	ug/L	0.8	0.79	0.74	99	93	70-130	7	30	
1,2-Dichloroethane-d4 (S)	%				96	106	77-125	10		
Toluene-d8 (S)	%				113	101	80-121	11		
Bromofluorobenzene (S)	%				118	106	80-129	11		

MATRIX SPIKE SAMPLE: 3112254 Original: J1906370003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Ethylene Dibromide (EDB)	ug/L	0	0.8	0.76	95	70-130	
1,2-Dibromo-3-Chloropropane	ug/L	0	0.8	1.2	144	70-130	
1,2-Dichloroethane-d4 (S)	%	92			106	77-125	

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QUALITY CONTROL DATA

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

MATRIX SPIKE SAMPLE: 3112254 Original: J1906370003

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%	110			103	80-121	
Bromofluorobenzene (S)	%	124			110	80-129	

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

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

V Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906370001	19137-MW-10A			EPA 300.0	WCAj/5010
J1906370002	19137-MW-10B			EPA 300.0	WCAj/5010
J1906370003	19137-MW-11A			EPA 300.0	WCAj/5010
J1906370004	19137-MW-11B			EPA 300.0	WCAj/5010
J1906370005	19137-CW-2A			EPA 300.0	WCAj/5010
J1906370006	19137-CW-3A			EPA 300.0	WCAj/5010
J1906370007	19137-DUP-2			EPA 300.0	WCAj/5010
J1906370008	19137-EQ-2			EPA 300.0	WCAj/5010
J1906370001	19137-MW-10A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370002	19137-MW-10B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370003	19137-MW-11A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370004	19137-MW-11B	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370005	19137-CW-2A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370006	19137-CW-3A	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370007	19137-DUP-2	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370008	19137-EQ-2	SW-846 3010A	DGMj/3437	SW-846 6010	ICPj/1981
J1906370001	19137-MW-10A			SM 2540 C	WCAj/5032
J1906370002	19137-MW-10B			SM 2540 C	WCAj/5032
J1906370003	19137-MW-11A			SM 2540 C	WCAj/5032
J1906370004	19137-MW-11B			SM 2540 C	WCAj/5032
J1906370005	19137-CW-2A			SM 2540 C	WCAj/5032
J1906370006	19137-CW-3A			SM 2540 C	WCAj/5032
J1906370007	19137-DUP-2			SM 2540 C	WCAj/5032
J1906370008	19137-EQ-2			SM 2540 C	WCAj/5032
J1906370001	19137-MW-10A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370002	19137-MW-10B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370003	19137-MW-11A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370004	19137-MW-11B	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370005	19137-CW-2A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370006	19137-CW-3A	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370007	19137-DUP-2	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906370008	19137-EQ-2	SW-846 7470A	DGMj/3456	SW-846 7470A	CVAj/1528
J1906370001	19137-MW-10A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370002	19137-MW-10B	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370003	19137-MW-11A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370004	19137-MW-11B	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370005	19137-CW-2A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370006	19137-CW-3A	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370007	19137-DUP-2	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370008	19137-EQ-2	SW-846 3010A	DGMj/3459	SW-846 6020	ICMj/1906
J1906370001	19137-MW-10A			EPA 350.1	WCAg/6600
J1906370002	19137-MW-10B			EPA 350.1	WCAg/6600
J1906370003	19137-MW-11A			EPA 350.1	WCAg/6600
J1906370004	19137-MW-11B			EPA 350.1	WCAg/6600
J1906370005	19137-CW-2A			EPA 350.1	WCAg/6600
J1906370006	19137-CW-3A			EPA 350.1	WCAg/6600
J1906370007	19137-DUP-2			EPA 350.1	WCAg/6600
J1906370008	19137-EQ-2			EPA 350.1	WCAg/6600
J1906370001	19137-MW-10A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370002	19137-MW-10B	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370003	19137-MW-11A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370004	19137-MW-11B	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370005	19137-CW-2A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370006	19137-CW-3A	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370007	19137-DUP-2	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370008	19137-EQ-2	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370009	19137-TripBlank-7	SW-846 5030B	MSVj/3659	SW-846 8260B	MSVj/3660
J1906370001	19137-MW-10A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370002	19137-MW-10B	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370003	19137-MW-11A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1906370 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1906370004	19137-MW-11B	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370005	19137-CW-2A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370006	19137-CW-3A	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370007	19137-DUP-2	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370008	19137-EQ-2	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662
J1906370009	19137-TripBlank-7	SW-846 5030B	MSVj/3661	SW-846 8260B (SIM)	MSVj/3662

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 9
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

J1906370

1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-968-6141
FAX:	
Contact:	Kirk Wills
Sampled By:	Nic Stapley & Boone Abbott
Turn Around Time:	☒ STANDARD ☐ RUSH
Page	1 of 1

Project Name: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)
P.O. Number/Project Number:
Project Location:
FDEP Facility No: 89544
Project Name and Address: JED SWDF, 1501 Omni Way, St Cloud, FL
Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic	LABORATORY I.D. NUMBER
							ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3	
							PRESER-VATION	HCL	HNO3	Ice	H2SO4	
19137-MW-10A		G	5/17/19	11:00	GW	6		3	1	1	1	001
19137-MW-10B				10:30								002
19137-MW-11A				09:00								003
19137-MW-11B				08:35								004
19137-CW-2A				09:17								005
19137-CW-3A				08:30	↓							006
19137-Dup-2		↓	↓	0001	GW	↓			↓	↓	↓	007
19137-EQ-2		G	5/17/19	10:00	DI H2O	6		↓	1	1	1	008
19137-TripBlank-2		—	—	—	DI H2O	3		3				009

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 4 (in degrees celcius)

DCN: AD-051 Form last revised 08/18/2014

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		5/17/19	1300	FedEx	5/17/19	1300
2	FedEx	5-18-19	10:05	Bigfoot	5-18-19	10:05
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J-ED Landfill F/R/A Oak Hammock Disposal

Date/Time Rcvd: 5-18-19 10:05 Log-In request number: J1906370

Received by: BY Completed by: BA

Cooler/Shipping Information:

Courier: ☐ AEL ☐ Client ☐ UPS ☐ Blue Streak ☒ FedEx ☐ AES ☐ ASAP ☐ Other (describe): _____

Type: ☒ Cooler ☐ Box ☐ Other (describe) _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	4°C				
Temp taken from	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials free of the presence of air bubbles?	✓		
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.	✓		
15. Was sufficient sample volume provided to perform all tests?	✓		
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			✓
17. Were all sample containers provided by AEL? (Other than Bacteriological)	✓		
18. Were samples accepted into the laboratory?	✓		
19. When necessary to split samples into other bottles, is it noted in the comments?	✓		

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)

One of the trip blank vials was received broken.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1906370

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 6010

Preparation: SW-846 3010A

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank (MB) contained low levels of Vanadium above the Method Detection Limit (MDL). In accordance with AEL QA policy, all sample results found in the Method Blank are flagged with a V qualifier to indicate the data is estimated. All sample results are below the Florida GCTL for this analyte. No further corrective action was required.

C. Duplicates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1906370

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: The analysis of J1906370003, -004, -005, -006, -007, and -009 was initially performed past the recommended holding time. An internal laboratory failure occurred which resulted in the missed holding time. Efforts were made to analyze the sample as soon as the error was identified. The data is qualified to indicate the holding time violation.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The relative percent difference (RPD) for several analytes between the Laboratory Control Sample (LCS) and the Laboratory Control Sample Duplicate (LCSD) was outside control criteria due to relatively higher spike recovery in 3112244 in comparison with 3112245. Spike recoveries in the LCS and LCSD were within acceptable limits, indicating the analytical batch was in control. No further corrective action was required.

The matrix spike (MS) recoveries of several analytes for J1906370008 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: J1906635012 was analyzed at dilution due to high target analyte levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

J1906635003 was reanalyzed at dilution due to high target analyte levels. The lowest possible dilution was performed to allow the analyte value to be within the calibration curves highest level and to prevent possible carry over in the following sample analyses.

G. Other:

Advanced Environmental Laboratories, Inc.

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Office (904) 363-9350
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Project No.: J1906370

Client Name: Waste Connections

ProjectID: J.E.D LANDFILL (F/K/A OAK HAMM

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: The analysis of J1906370003, -004, -005, -006, -007, and -009 was initially performed past the recommended holding time. An internal laboratory failure occurred which resulted in the missed holding time. Efforts were made to analyze the sample as soon as the error was identified. The data is qualified to indicate the holding time violation.

III. Method

Analysis: SW-846 8260B (SIM)

Preparation: SW-846 5030B

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other: