Prepared for:

WASTE CONNECTIONS, INC.
Connect with the Future

OMNI WASTE OF OSCEOLA COUNTY, LLC
1501 Omni Way
St. Cloud, Florida 34773

27th SEMI-ANNUAL WATER QUALITY MONITORING REPORT

J.E.D. Solid Waste Management Facility
1501 Omni Way
St. Cloud, Osceola County, Florida 34773

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January 2018

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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.

Justin Vickery, P.G.

Stamp

January 22, 2018
Date

1 INTRODUCTION

1.1 Terms of Reference

Environmental Planning Specialists, Inc. (EPS), on behalf of Waste Connections, Inc. (WCI), 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"]).

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

1.2 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 27th semi-annual water quality monitoring event was completed between November 13 and November 28, 2017. 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, Florida Administrative Code (FAC).

1.3 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 Consultants, 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 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 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 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, 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).

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).

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 feet. For development of Phases 2 and 3, 24 groundwater monitoring wells were installed in eight clusters (MW-16 through MW-23) around the perimeter of the Phases 2 and 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 feet, and the spacing between background well clusters (MW-22R and MW-23) was approximately 800 feet. Each of these well clusters consists of three 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 well clusters (MW-17, MW-18, MW-19, and MW-21) were abandoned and three 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 feet apart. In addition, replacement monitoring well cluster MW-17R was installed adjacent to Cell 10. In accordance with the January 2014 MPIS the three new and one replacement well cluster consist of two monitoring wells each, one installed in the A-zone and one in the B-zone.

A layout depicting the location of the shallow (A-zone), intermediate (B-zone), and deep (C-zone) groundwater monitoring wells installed for Phases 1 through 4 are shown on Figure 1A, Figure 1B, and Figure 1C, respectively. As shown, groundwater monitoring well clusters MW-1 through MW-13, MW-16R, MW-17R, MW-22R, MW-23, MW-27 through MW-29, and 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 feet (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 well locations has an elevation of approximately 84 feet 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 2 to 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 2.5 to 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 Phases 1 through 3 monitoring networks (Geosyntec 2004 and 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 and colloidal material are able to 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 had turbidity values in excess of 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.

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 of the monitoring wells installed as part of the Phase 2 and 3 developments, 12 of the monitoring wells installed as part of the Phase 4 development, and three compliance wells were sampled during the 27th 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-29, and MW-31 and A-zone compliance wells CW-1A, CW-2A, and CW-3A. Low-flow sampling techniques were used for groundwater sample collection. Except for the turbidity considerations as described in the previous section, all groundwater sampling was performed in accordance with the current applicable FDEP Standard Operating Procedures (DEP-SOP-001-01, March 2014) for groundwater sampling. Additionally, for quality control purposes, two blind duplicate samples and one equipment blank were collected and analyzed for the same constituents as the monitoring wells. Peristaltic pumps were used to purge and sample forty-seven of the monitoring wells, and electric submersible pumps were used to sample the remaining two 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 field parameters: pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen. Turbidity levels were measured using a LaMotte 2020e 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 in 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), chlorides, 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 3.89 to 5.94 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 E. 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 Groundwater Cleanup Target Level (GCTL), Primary Drinking Water Standard (PDWS), or SDWS has been highlighted orange. Detections reported above the PQL but below the GCTL/PDWS/SDWS have been highlighted green and detections between the PQL and laboratory method detection limit (MDL) are highlighted blue. 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 compliance well CW-1A (140 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 much less than 10 µg/L. Therefore, this localized arsenic detection appears to be naturally occurring. Another potential source may be a utility pole located approximately 20 feet from CW-1A, which may have been treated with an arsenic compound such as chromated copper arsenate (CCA).

4.2.1.2 Cadmium

Cadmium was reported at a concentration slightly above the GCTL of 5 µg/L in shallow monitoring well MW-17AR (5.1 µg/L). Historically, cadmium has not been detected in this, or any other site well, at concentrations exceeding the GCTL, and, based upon the other constituent

concentrations observed in MW-17AR, these results do not appear to indicate impacts from site operations.

4.2.1.3 Iron

Iron was detected above the SDWS of 300 µg/L in nineteen of the A-zone monitoring wells sampled, with the concentrations ranging between 680 and 52,000 µg/L. The highest A-zone iron concentration was detected in MW-31A. Iron was detected above the SDWS in twenty of the B-zone monitoring wells sampled this event, with concentrations ranging between 440 and 41,000 µg/L. The highest B-zone iron was detected in MW-2B and MW-8B. Iron was detected in all three compliance wells with concentrations ranging from 380 to 13,000 µg/L. 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 27th semi-annual event are consistent with period of record data.

4.2.1.4 Sodium

Sodium was detected above the PDWS of 160 milligrams per liter (mg/L) in monitoring well MW-1A (230 mg/L) and compliance wells MW-2A (170 mg/L) and CW-3A (250 mg/L).

4.2.2 Ammonia-N (Method 350.1)

Ammonia was detected above the GCTL of 2.8 mg/L in sixteen of the shallow monitoring wells, with concentrations ranging from 3.2 mg/L to 18 mg/L and the highest concentration being from MW-4A. Ammonia was detected above the GCTL in seven of the intermediate monitoring wells, with concentrations ranging from 3 mg/L to 21 mg/L and the highest concentration being from MW-4B. Ammonia was detected in all three compliance wells above the GCTL with concentrations ranging from 4.5 to 14 mg/L. 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 which 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 ten shallow monitoring wells, with concentrations ranging from 600 mg/L to 1,400 mg/L and the highest concentration being from MW-8A. TDS concentrations were detected above the SDWS of 500 mg/L in nine intermediate monitoring wells, with concentrations ranging from 520 mg/L to 1,500 mg/L and the highest concentration being from MW-3B. TDS concentrations were detected above the SDWS in all three compliance wells with concentrations ranging from 650 to 1,400 mg/L. 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.

4.2.4 Chloride (Method 300.0)

Chloride was detected above the SDWS of 250 mg/L in shallow monitoring wells MW-1A (430 mg/L), MW-16AR (380 mg/L), compliance wells CW-2A (2,900 mg/L), CW-3A (540 mg/L) and intermediate well MW-23B (390 mg/L). It is of note that CW-2A and CW-3A are downgradient from MW-9A through MW-12A, which all have chloride concentrations well below the SDWS. This may indicate the exceedances observed in CW-2A and 3A are not a result of facility operations. The remaining monitoring wells are consistent with period of record data.

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 ten A-zone monitoring wells, with concentrations ranging from 1.2 to 9.1 µg/L and the highest concentration being from MW-9A. It was also detected in intermediate well MW-10B at a concentration of 6.2 µg/L. Benzene has been reported above the GCTL in most of these wells during previous monitoring events at similar concentrations.

The source of benzene in groundwater is likely attributed to landfill gas ((HDR Engineering, Inc., 2012) and (Geosyntec, 2013)). As discussed in the reports mentioned above, neither the constituents nor the concentrations of 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 to observe elevated concentrations of other indicator parameters such as sodium or chloride; however, this does not appear to be the case.

4.3 Data Validation

All laboratory analyses were performed within the method-specified hold times. Two blind duplicate samples were collected during the 27th semi-annual monitoring event. A duplicate sample was collected concurrently with the sample from monitoring well MW-1A (sample name: 17318-Dup-1) and MW-16AR (sample name: 17324-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, with the exception of the results for chloride and nitrate, was below ten percent, which indicates a strong correlation. The chloride analysis for MW-1A and its duplicate resulted in a RPD of 13% and the chloride analysis for MW-16AR and its duplicate resulted in a RPD of 17%. The nitrate analysis for MW-16AR and its duplicate resulted in a RPD of 16%. The discrepancy for these analyses is slight and may be due to temporal variability in the grab samples.

During this sampling event, two monitoring wells (MW-25B and MW-31B) were purged and sampled using a stainless steel submersible pump. Following the collection of the sample from MW-31B, the stainless-steel submersible pump was decontaminated, a new length of HDPE tubing was attached, and, using lab supplied de-ionized water, an equipment blank (17320-Equipment Blank) was collected. The equipment blank sample was analyzed for the same constituents as the groundwater samples, and results were non-detect with the exception of zinc, which was detected at a concentration less than the laboratory PQL.

4.4 Impact of Turbidity on Metals Concentrations

A turbidity of less than 20 NTUs was achieved in all but one monitoring well this event. Intermediate zone monitoring well MW-25B exceeded the FDEP guidance of 20 NTUs with a final measured turbidity of 53 NTU. This well was purged using a stainless steel submersible pump, and more than five well volumes were removed. Samples were collected after the third reading in which turbidity levels were within 5 NTUs or 10% (whichever was greater) as stipulated in the FDEP SOP. A filtered sample was not collected and the turbidity level did not appear to affect the metals concentrations with reported values being similar to previous events.

5 GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

5.1 Field Measurements

Groundwater level measurements were obtained on November 13, 2017 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 an approximate 3.5-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 1A for the surficial aquifer in the A-zone (shallow) wells, in Figure 1B for the B-zone (intermediate) wells, and Figure 1C for the C-zone (deep) wells. Overall, the groundwater elevation data collected on November 13, 2017 from all three zones is consistent with historical data with flow to the east and northeast; however there appears to be a slight southwest component in the A-zone.

6 SURFACE WATER SAMPLING

6.1 Sampling Locations and Procedures

Two surface water sampling locations, SW-3 and SW-4 (Figure 1A), 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 27th semi-annual water quality monitoring event, flow was observed in Bull Creek at the upstream (SW-4) and downstream (SW-3) monitoring locations, and surface water samples were collected at each location. Surface water samples were collected from the approximate center of Bull Creek at mid-depth. A YSI 556 water quality meter was used to measure field parameters including temperature, pH, dissolved oxygen and specific conductance at each sampling location. Turbidity levels were measured using a LaMotte 2020e turbidity meter. Surface water samples were collected in accordance with the FDEP surface water sampling SOPs.

6.2 Sample Analyses

Surface water samples were analyzed by AEL in accordance with the NELAC (National Environmental Laboratory Accreditation Conference) standards for unionized ammonia, total hardness as $CaCO_3$, total organic carbon (TOC), chlorides, nitrate, TDS, total suspended solids (TSS), biochemical oxygen demand (BOD), chemical oxygen demand (COD), total nitrogen, nitrate, total phosphates as phosphorous, chlorophyll A, iron, mercury, fecal coliform, and the 40 CFR, Part 258 Appendix I parameters. Other required parameters (e.g., pH, temperature, specific conductance, turbidity, and dissolved oxygen) were field-measured during collection of the surface water samples.

6.3 Field Measurements and Analytical Results

Table 5 provides a summary of the field parameter values and laboratory analytical results for the surface water samples. The analytical laboratory report is included in Appendix E. Parameters exceeding the Surface Water Quality Criteria (SWQC) Class III concentrations are discussed below.

6.3.1 Dissolved Oxygen

The DO concentrations in the surface water samples collected at the two monitoring stations were below the SWQS requirement (> 38% saturation) during the November 2017 monitoring event. Bull Creek is a shallow, slow moving, heavily vegetated creek, and it is reasonable to expect DO concentrations to fluctuate widely with periods of oxygen consumption exceeding production. It is unlikely that these are the reflection of any landfill impacts.

6.3.2 pH

The pH at SW-3 (5.34 SU) and SW-4 (4.52 SU) were outside of the criteria designated in 62-302.530(96)(c) FAC, i.e, *if natural background is less than 6 units in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters.* The pH at locations SW-3 and SW-4 measured in the initial site investigation conducted by Kubal-Furr & Associates (Kubal-Furr) for the JED facility was 5.86 and 5.40 SU's, respectively (*Hydrogeologic Investigation Report and Water Quality Monitoring Plan*, April 2002). Please note that at the time the initial pH measurements were taken by Kubal-Furr, Bull Creek was not flowing. Bull Creek is a shallow, narrow waterway that is highly dependent on seasonal precipitation, and given that the median pH for precipitation in Florida is 4.77 SU (Maddox, et.al., 1992), it would not be uncommon for the creek to see pH levels lower than what was observed in the initial investigation.

6.3.3 Iron

The SWQC for iron of 1 mg/L was exceeded in upstream surface water monitoring station SW-4 (1.4 mg/L) and in downstream sample SW-3 (1.1 mg/L). These values are similar to those observed in past events, and do not indicate impacts from facility operations.

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

The detections of ammonia, iron, sodium, chloride, and TDS above the regulatory standards in specific groundwater monitoring wells have been discussed in detail in the previous Technical Reports on Water Quality (TRWQ). As discussed in Section 4.2, it is likely that the iron and ammonia detections are not related to a leachate release from the disposal boundary but are rather mobilized by the presence of nitrogen containing compounds under reducing conditions. Iron has exceeded the SDWS since the Phase I baseline monitoring event. Our recommendation is to continue monitoring these constituents as part of the current MPIS.

The concentrations of chloride and TDS in MW-16AR were elevated during this sampling event. However, MW-16AR has seen a reduction in concentrations of ammonia to less than the GCTL, and concentrations of benzene, previously exceeding the GCTL, was not detected during this event. These elevated concentrations were likely due to storm water runoff and cover soil erosion from uncapped areas that occurred over a year ago directly upslope between the Cell 6 and Cell 9 sump areas. Omni has addressed the storm water drainage issues through grading and adding additional cover soil in this area. Concentrations of these constituents are expected to further decrease in the well over time. Our recommendation is to continue monitoring these constituents as part of the current MPIS.

The detections of benzene have been consistent in select monitoring wells and, as discussed in Section 4.2 as well as prior submittals to the FDEP, may be attributable to landfill gas migration. The current MPIS requires sampling of compliance wells CW-1A, CW-2A, and CW-3A to monitor the edge of the zone of discharge. The compliance wells were non-detect for benzene during this event. Our recommendation is to continue semi-annual monitoring of these constituents as part of the current MPIS.

8 REFERENCES

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TABLES

Table 1 (1 of 3)

SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
27th 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-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
27th 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-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
27th 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	95.2	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	95.3	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	94.7	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	95.4	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	95.4	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	94.6	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	94.9	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	94.5	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	94.5	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	96.4	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	93.7	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	95.1	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	95.0	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	95.0	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	95.1	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	97.9	67.1	56.6	66.6	41.4	31.4	54.6	53.6

Notes:

NAD 83 = North American Datum 1983
BTOC = Below Top of Casing

Table 2

SUMMARY OF FINAL FIELD PARAMETERS
27th 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	27.23	4.43	1,965	4.1	-42.2	0.32	Peristaltic Pump
MW-1B	26.61	4.14	1,423	1	-68.3	0.26	Peristaltic Pump
MW-2A	25.94	4.31	1,144	1	72.3	0.26	Peristaltic Pump
MW-2B	25.41	4.3	1,283	0.8	68.7	0.27	Peristaltic Pump
MW-3A	26.38	5.26	1,575	12	33.3	0.29	Peristaltic Pump
MW-3B	25.92	4.25	1,723	1.2	58.1	0.27	Peristaltic Pump
MW-4A	25.53	5.1	1,531	2.1	-20.8	0.3	Peristaltic Pump
MW-4B	25.5	4.37	1,774	0.7	120.6	0.35	Peristaltic Pump
MW-5A	26.94	5.67	441	9.8	-119.8	0.22	Peristaltic Pump
MW-5B	26.81	4.5	1,480	0.6	-1.5	0.34	Peristaltic Pump
MW-6A	26.05	5.66	427	2	-63.7	0.28	Peristaltic Pump
MW-6B	26.03	4.51	143	0.2	-29	0.55	Peristaltic Pump
MW-7A	24.55	4.96	235	0.9	17.3	0.38	Peristaltic Pump
MW-7B	24.17	4.13	593	0.6	58.1	0.34	Peristaltic Pump
MW-8A	25.03	4.2	1,549	2.8	66	0.23	Peristaltic Pump
MW-8B	24.13	4.21	1,098	2.4	41.6	0.57	Peristaltic Pump
MW-9A	26.18	5.21	297	3.9	-46.9	0.29	Peristaltic Pump
MW-9B	25.59	4.29	597	0.2	92.5	0.35	Peristaltic Pump
MW-10A	26.15	4.84	635	2.2	-5.3	0.43	Peristaltic Pump
MW-10B	25.97	3.89	1,013	0.6	57.8	0.45	Peristaltic Pump
MW-11A	28.28	4.61	528	5.6	24.3	0.19	Peristaltic Pump
MW-11B	27.98	5.15	85	2	26.1	0.43	Peristaltic Pump
MW-12A	26.8	4.25	436	0.9	87.2	0.29	Peristaltic Pump
MW-12B	26.18	4.85	77	0.5	69.7	0.29	Peristaltic Pump
MW-13A	26.78	4.58	722	1.2	49.1	0.26	Peristaltic Pump
MW-13B	25.83	4.73	113	0.5	63.2	0.3	Peristaltic Pump
MW-16AR	26.15	5.73	1,966	4.1	2.5	0.25	Peristaltic Pump
MW-16BR	25.35	4.7	98	1	-33	0.23	Peristaltic Pump
MW-17AR	26.06	4.14	914	0.8	109.6	1.24	Peristaltic Pump
MW-17BR	25.03	5.03	114	2.5	-12.7	0.24	Peristaltic Pump
MW-22AR	27.18	5.94	789	5.1	-162.3	0.04	Peristaltic Pump
MW-22BR	26.36	4.36	399	1.2	-24.9	0.15	Peristaltic Pump
MW-23A	28.17	5.93	644	7.3	-140.1	0.11	Peristaltic Pump
MW-23B	26.87	4.07	1,638	0.8	-31.1	0.25	Peristaltic Pump
MW-24A	25.27	4.46	88	0.8	-5.9	1.43	Peristaltic Pump
MW-24B	24.41	4.32	44	4.1	7.9	0.15	Peristaltic Pump
MW-25A	25.56	4.58	976	0.7	5.6	0.19	Peristaltic Pump
MW-25B	24.21	4.9	123	53	11.7	0.22	Submersible Pump
MW-27A	25.81	4.26	80	3.9	-66.1	0.13	Peristaltic Pump
MW-27B	24.51	5.04	147	4.8	-77.6	0.32	Peristaltic Pump
MW-28A	27	4.83	276	3.6	-68.6	0.08	Peristaltic Pump
MW-28B	25.21	4.81	133	8.6	-93.7	0.18	Peristaltic Pump
MW-29A	26.45	4.33	193	0.7	30.4	0.29	Peristaltic Pump
MW-29B	24.84	4.7	197	0.7	-30.9	0.27	Peristaltic Pump
MW-31A	26.43	4.45	1,266	4.4	23.9	0.17	Peristaltic Pump
MW-31B	24.58	4.98	252	17.6	25.8	0.25	Submersible Pump
CW-1A	23.75	4.95	1,053	1	41.3	0.33	Peristaltic Pump
CW-2A	23.66	5.35	1,521	6.8	23	0.35	Peristaltic Pump
CW-3A	23.39	4.72	2,362	1.3	25.2	0.41	Peristaltic Pump

Notes:

^{o}C = degrees Celsius
uS/cm = micro Siemens per centimeter
NTU = Nephelometric Turbidity Units
mV = millivolts
mg/L = milligram per liter

Table 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA
27th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Well ID	Acetone	Benzene	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Iron	Nickel	Sodium	Vanadium	Ammonia	Chloride	Nitrate (N)	TDS
	GCTL (ug/L)	PDWS (ug/L)	PDWS (ug/L)	GCTL (ug/L)	PDWS (ug/L)	PDWS (ug/L)	PDWS (ug/L)	PDWS (ug/L)	PDWS (ug/L)	SDWS (ug/L)	PDWS (ug/L)	PDWS (mg/L)	GCTL (ug/L)	GCTL (mg/L)	SDWS (mg/L)	SDWS (mg/L)	SDWS (mg/L)
	6,300	**1**	**6**	**10**	**2,000**	**4**	**5**	**100**	**140**	**300**	**100**	**160**	**49**	**2.8**	**250**	**10**	**500**
MW-1A	8.9	0.45 I	0.11 I	9 U	73	0.4 U	0.45 U	3.3	1.9 U	4,700	6 U	230	7.6	4.3	430	0.25 U	1,100
MW-1A Duplicate	8.2	0.16 U	0.11 I	9 U	70	0.4 U	0.45 U	3.1	1.9 U	4,600	6 U	240	7.8	4.3	490	0.25 U	1,000
MW-1B	8.7	0.16 U	0.15 I	9 U	52	0.62 I	0.45 U	1.6 U	10	29,000	6 U	120	13	4.2	250	0.25 U	1,000
MW-2A	2.1 U	0.16 U	0.084 I	9 U	75	0.4 U	0.45 U	2.2 I	4.2	12,000	6 U	64	6.5	3.2	190 J4	0.10 U	750
MW-2B	2.1 U	0.16 U	0.11 I	9 U	55	1	0.45 U	1.6 U	14	41,000	6.3 I	71	5.6	2.1	220	0.10 U	850
MW-3A	2.1 U	2.5	0.048 I	9 U	78	0.40 U	0.45 U	3.0 I	4.5	15,000	6 U	22	4.6	14	13	0.10 U	1,200
MW-3B	2.1 U	0.16 U	0.046 U	9 U	45	2	0.45 U	1.6 U	4 I	9,900	6 U	31	5.2	3.8	70	0.10 U	1,500
MW-4A	7.2	1.2	0.046 U	9 U	85	0.4 U	0.45 U	1.6 I	1.9 U	12,000	6 U	33	2.5	18	29	0.10 U	1,200
MW-4B	3.3 I	0.16 U	0.14 I	9 U	46	0.4 U	0.45 U	2.3 I	1.9 U	180 I	6 U	74	8.6	21	120	0.10 U	1,300
MW-5A	2.1 U	0.35 I	0.17 I	9 U	9.3	0.4 U	0.45 U	2.9 I	1.9 U	1,200	6 U	22	1.6	8.4	26	0.25 U	310
MW-5B	2.1 U	0.16 U	0.12 I	9 U	40	0.4 U	0.45 U	1.6 U	1.9 U	150 I	6 U	37	3	9.6	100	0.50 U	1,100
MW-6A	2.2 I	5	0.046 U	9 U	9.7	0.4 U	0.45 U	2.2 I	1.9 U	13,000	6 U	21	5.1	4.5	37	0.05 U	250
MW-6B	2.7 I	0.16 U	0.046 U	9 U	51	0.41 I	0.45 U	1.6 U	1.9 U	1,500	6 U	9.3	1.3	0.27	34	0.05 U	80
MW-7A	2.1 U	0.16 U	0.046 U	9 U	9.6	0.4 U	0.45 U	2.6 I	1.9 U	6,900	6 U	14	3.7	8.6	29	0.05 U	120
MW-7B	2.1 U	0.16 U	0.051 I	9 U	30	0.94	0.45 U	1.6 U	3.6 I	20,000	6 U	14	2.2	3.0	21	0.05 U	520
MW-8A	2.1 U	2.5	0.098 I	9 U	43	0.4 U	0.64 I	1.8 I	3 I	8,800	6 U	5.6	5.4	4.3	13 I	0.50 U	1,400
MW-8B	2.1 U	0.16 U	0.053 I	9 U	62	0.72 I	0.45 U	1.6 U	7.7	41,000	6.4 I	31	3.9	1.1	42	0.1 U	900
MW-9A	2.1 U	9.1	0.05 U	9 U	9.3	0.4 U	0.45 U	1.6 U	1.9 U	1,000	6 U	13	0.8 I	4.8	10	0.05 U	160 J4
MW-9B	2.6 I	0.37 I	0.05 U	9 U	47	0.83	0.45 U	2.0 I	3.5 I	11,000	6 U	27	3.7	1.3	54	0.056 I	370
MW-10A	3.3 I	2.2	0.086 I	9 U	53	0.4 U	0.45 U	1.6 U	1.9 U	4,900	6 U	20	1.9	6.7	15	0.05 U	420
MW-10B	2.1 U	6.2	0.053 I	9 U	42	1.8	0.45 U	1.6 U	3.5 I	5,600	6 U	21	3.7	8.4	49	0.25 U	720
MW-11A	30	3.7	0.083 I	9 U	61	0.4 U	0.45 U	1.6 U	1.9 U	7,600	6 U	9.1	4.3	3.8	17	0.056 I	330
MW-11B	2.1 U	0.16 U	0.046 U	9 U	14	0.4 U	0.45 U	1.6 U	1.9 U	300	6 U	10	2.1	0.02	11	0.05 U	30
MW-12A	2.1 U	7.5	0.068 I	9 U	67	0.4 U	0.45 U	1.6 U	2.3 I	4,500	6 U	32	2.4	3.3	98	0.05 U	170
MW-12B	2.1 U	0.16 U	0.046 U	9 U	21	0.4 U	0.45 U	1.6 U	1.9 U	700	6 U	6.4	1.1	0.12	13	0.84	44
MW-13A	7.2	7.2	0.046 U	9 U	83	0.4 U	0.45 U	1.6 U	2.2 I	7,100	6 U	66	5.2	3.2	170	0.3 I	360
MW-13B	2.1 U	0.16 U	0.046 I	9 U	14	0.4 U	0.45 U	1.6 U	1.9 U	1,100	6 U	9.4	0.74 I	0.17	23	0.05 U	58
MW-16AR	2.1 U	0.16 U	2.4	9 U	35	0.4 U	1.1	2.0 I	1.9 U	220	6 U	160	10	1	380	6.7	1,300
MW-16AR Duplicate	2.1 U	0.16 U	2.2	9 U	35	0.4 U	1.1	1.8 I	1.9 U	220	6 U	150	10	1.2	320	5.7	1,300
MW-16BR	2.1 U	0.16 U	0.046 U	9 U	29	0.4 U	0.45 U	1.6 U	1.9 U	1,900	6 U	6.5	0.73 I	0.27	18	0.05 U	52
MW-17AR	2.1 U	0.16 U	0.71	9 U	120	0.4 U	5.1	1.6 U	1.9 U	1,400	6 U	44	11	0.99	57	1.8	610
MW-17BR	2.1 U	0.16 U	0.05 U	9 U	18	0.4 U	0.45 U	1.6 U	1.9 U	580	6 U	13	1.2	0.10	19	0.05 U	73
MW-22AR	2.1 U	0.16 U	0.14 I	9 U	36	0.4 U	0.45 I	3.4	1.9 U	100 U	6 U	13	4.9	7	14	0.1 U	600
MW-22BR	2.1 U	0.16 U	0.049 I	9 U	78	0.41 I	0.45 U	1.6 U	4	13,000	6.0 U	26	1.9	0.32	27	0.05 U	240
MW-23A	2.1 U	0.93 I	0.18 I	9 U	21	0.4 U	0.45 U	4.5	1.9 U	120 I	6 U	45	5.2	4.5	72	0.1 U	400
MW-23B	2.1 U	0.16 U	0.083 I	9 U	130	0.55 I	0.45 U	2.0 I	1.9 U	2,100	6 U	150	11	11	390	0.1 U	810
MW-24A	2.1 U	0.16 U	0.046 U	9 U	8.2	0.4 U	0.45 U	1.6 I	1.9 U	290	6 U	10	0.92 I	0.07	16	0.05 U	62
MW-24B	2.1 U	0.16 U	0.05 U	9 U	7.1	0.4 U	0.45 U	1.6 U	1.9 U	440	6 U	4.3	0.86 I	0.08	7.1	0.05 U	23
MW-25A	2.1 U	0.16 U	0.061 I	9 U	100	1.1	0.45 U	1.6 U	3 I	18,000	6 U	60	6.8	2.8	110 J4	0.05 U,J4	610
MW-25B	2.1 U	0.16 U	0.11 I	9 U	66	0.4 U	0.45 U	4.1	1.9 U	1,100	6 U	11	6.8	0.24	27	0.1 U	82
MW-27A	2.1 U	0.16 U	0.084 I	9 U	12	0.4 U	0.45 U	1.9 I	1.9 U	680	6 U	4.7	3.1	0.73	5.6	0.05 U	60
MW-27B	2.1 U	0.16 U	0.05 U	9 U	19	0.4 U	0.45 U	1.9 I	1.9 U	520	6 U	21	1.9	0.05	34	0.05 U	77
MW-28A	5.3	0.16 U	0.048 I	9 U	38	0.4 U	0.45 U	1.6 U	1.9 U	2,600	6 U	17	0.55 U	1.9	22	0.89	140
MW-28B	3.8 I	0.16 U	0.058 I	9 U	36	0.4 U	0.45 U	1.8 I	1.9 U	1,200	6 U	14	2.4	0.11	30	0.08 I	89
MW-29A	2.1 U	1.2	0.71	9 U	50	0.4 U	1.5	4.9	1.9 U	3,400	6 U	11	5.4	0.74	16	0.05 U	120
MW-29B	2.1 U	0.16 U	0.046 U	9 U	69	0.4 U	0.45 U	1.6 U	1.9 U	2,300	46	17	2.2	0.07	18	0.05 U	150
MW-31A	2.1 U	0.16 U	0.13 I	9 U	58	0.66 I	0.67 I	1.6 U	29	52,000	20	19	6.2	4.5	16	0.05 U	1,100
MW-31B	2.1 U	0.16 U	0.068 I	9 U	78	0.4 U	0.45 U	1.8 I	1.9 U	6,000	6 U	15	2.4	0.45	28	0.05 U	180
CW-1A	2.1 U	0.16 U	0.16 I	140	110	0.4 U	0.45 U	10	2.3 I	13,000	6.1 I	68	7.3	4.5	120	0.1 U	650
CW-2A	2.1 U	0.16 U	0.24 I	9 U	50	0.4 U	0.45 U	5.7	1.9 U	380	6 U	170	14	14	2,900	1 U	970
CW-3A	29	0.16 U	0.18 I	9 U	92	1.2	0.45 I	8.1	1.9 U	11,000	6 U	250	14	10	540	1 U	1,400

NOTES:

I — Reported value is between the Laboratory Method Detection Limit (MDL) and the Laboratory Practical Quantitation Limit (PQL)

Reported value exceeds the PQL

Reported value exceeds the GCTL, PDWS, or SDWS

U = Sample was analyzed but not detected above the MDL

J4 = Estimated result

GCTL = Groundwater Cleanup Target Level

PDWS = Primary Drinking Water Standard

SDWS = Secondary Drinking Water Standard

Table 4

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GROUNDWATER LEVEL MEASUREMENTS
27th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Site Name: JED Solid Waste Management Facility **Sampling Personnel:** Joe Terry
Location: Osceola County, Florida **Field Conditions:** mostly sunny, 81°F, NE 14 mph
Date: November 13, 2017

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	13:45	84.38	4.28	52.87	80.10	
DP-19	13:45	84.34	4.20	18.20	80.14	
DP-20	--	83.07	NM	18.35	NM	area inundated and inaccessible
DP-21	--	83.00	NM	53.68	NM	area inundated and inaccessible
DP-22	--	81.00	NM	18.63	NM	area inundated and inaccessible
DP-23	--	81.27	NM	53.73	NM	area inundated and inaccessible
DP-24	Piezometer Abandoned December 30, 2015					
SZ-1	Piezometer Abandoned July 10, 2007					
SZ-2	--	83.16	NM	75.39	NM	area inundated and inaccesible
SZ-3	--	81.27	NM	78.85	NM	area inundated and inaccesible
MW-1A	14:56	95.12	14.75	23.15	80.37	
MW-1B	14:56	95.00	14.66	48.07	80.34	
MW-1C	14:56	95.18	14.90	74.58	80.28	
MW-2A	15:00	95.21	14.82	22.84	80.39	
MW-2B	15:00	95.17	14.80	48.26	80.37	
MW-2C	15:00	95.32	15.10	68.57	80.22	
MW-3A	15:04	94.64	14.06	22.97	80.58	
MW-3B	15:04	94.68	14.38	47.88	80.30	
MW-3C	15:04	94.66	14.45	68.95	80.21	

Table 4

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GROUNDWATER LEVEL MEASUREMENTS
27th 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: November 13, 2017
Sampling Personnel: Joe Terry
Field Conditions: mostly sunny, 81°F, NE 14 mph

Well ID	Time	TOC Elevation[1]	Depth to Water (ft)	Well Depth (ft)[2]	GW Elevation	Field Observations
MW-4A	15:13	95.48	15.26	23.28	80.22	
MW-4B	15:13	95.18	15.03	47.67	80.15	
MW-4C	15:13	95.39	15.34	72.70	80.05	
MW-5A	15:15	95.32	15.48	22.69	79.84	
MW-5B	15:15	95.30	15.55	47.32	79.75	
MW-5C	15:15	95.39	15.90	73.25	79.49	
MW-6A	15:20	94.72	15.73	22.60	78.99	
MW-6B	15:20	94.60	15.62	47.71	78.98	
MW-6C	15:20	94.58	15.72	73.25	78.86	
MW-7A	15:25	95.48	16.12	23.53	79.36	
MW-7B	15:25	95.27	15.95	48.14	79.32	
MW-7C	15:25	94.93	15.87	73.49	79.06	
MW-8A	15:32	94.67	15.06	22.71	79.61	
MW-8B	15:32	94.58	15.08	49.48	79.50	
MW-8C	15:32	94.50	15.38	73.95	79.12	
MW-9A	15:35	94.66	15.40	22.53	79.26	
MW-9B	15:35	94.63	15.48	49.30	79.15	
MW-9C	15:35	94.54	15.68	73.96	78.86	
MW-10A	15:40	96.25	17.10	22.37	79.15	
MW-10B	15:40	96.23	17.14	48.47	79.09	
MW-10C	15:40	96.36	17.54	73.76	78.82	
MW-11A	15:58	93.56	14.50	22.83	79.06	
MW-11B	15:58	93.59	14.87	48.03	78.72	
MW-11C	15:58	93.65	14.95	73.72	78.70	
MW-12A	16:03	95.10	16.03	23.20	79.07	
MW-12B	16:03	95.01	16.15	49.17	78.86	
MW-12C	16:03	95.10	16.30	73.75	78.80	
MW-13A	16:08	95.19	16.00	22.73	79.19	
MW-13B	16:08	95.12	16.04	47.43	79.08	
MW-13C	16:08	95.04	16.04	73.20	79.00	
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

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GROUNDWATER LEVEL MEASUREMENTS
27th 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: November 13, 2017
Sampling Personnel: Joe Terry
Field Conditions: mostly sunny, 81°F, NE 14 mph

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	16:10	95.01	14.89	23.95	80.12	
MW-16BR	16:10	94.97	15.45	46.55	79.52	
MW-16CR	16:10	95.03	15.68	75.25	79.35	
MW-17AR	14:25	94.84	14.91	24.03	79.93	
MW-17BR	14:25	94.78	14.92	48.40	79.86	
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	14:45	95.00	14.70	23.59	80.30	
MW-22BR	14:45	94.86	14.60	46.06	80.26	
MW-22CR	14:45	95.13	14.87	66.50	80.26	
MW-23A	14:50	97.90	17.57	27.95	80.33	
MW-23B	14:50	97.91	17.56	42.98	80.35	
MW-23C	14:50	97.93	17.62	67.19	80.31	
MW-24A	13:50	87.06	7.10	23.41	79.96	
MW-24B	13:50	87.05	7.10	43.05	79.95	
MW-25A	14:40	86.99	6.70	23.36	80.29	
MW-25B	14:40	86.67	6.28	41.41	80.39	
MW-26A	Monitoring Well Abandoned June 15, 2016					
MW-26B	Monitoring Well Abandoned June 15, 2016					
MW-24A Exp	16:20	86.97	6.51	24.14	80.46	
MW-25A Exp	13:05	82.36	1.98	24.71	80.38	
MW-26A Exp	--	82.01	NM	24.03	NM	area inundated and inaccessible
MW-27C Exp	--	81.66	NM	58.37	NM	area inundated and inaccessible

Table 4

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GROUNDWATER LEVEL MEASUREMENTS
27th 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: November 13, 2017
Sampling Personnel: Joe Terry
Field Conditions: mostly sunny, 81°F, NE 14 mph

Well ID	Time	TOC Elevation[1]	Depth to Water (ft)	Well Depth (ft)[2]	GW Elevation	Field Observations
MW-27A	13:22	94.68	14.67	23.54	80.01	
MW-27B	13:22	94.66	14.89	46.50	79.77	
MW-28A	14:36	94.77	14.70	23.84	80.07	
MW-28B	14:36	94.68	15.16	48.82	79.52	
MW-29A	14:30	94.88	13.70	23.65	81.18	
MW-29B	14:30	94.67	14.76	48.90	79.91	
MW-31A	13:16	94.15	13.56	25.02	80.59	
MW-31B	13:16	93.88	13.84	46.34	80.04	
CW-1A	15:10	84.53	4.34	18.46	80.19	
CW-2A	15:50	82.81	4.04	18.48	78.77	
CW-3A	15:47	81.89	3.47	18.42	78.42	

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 water quality monitoring event
NM = Not Measured

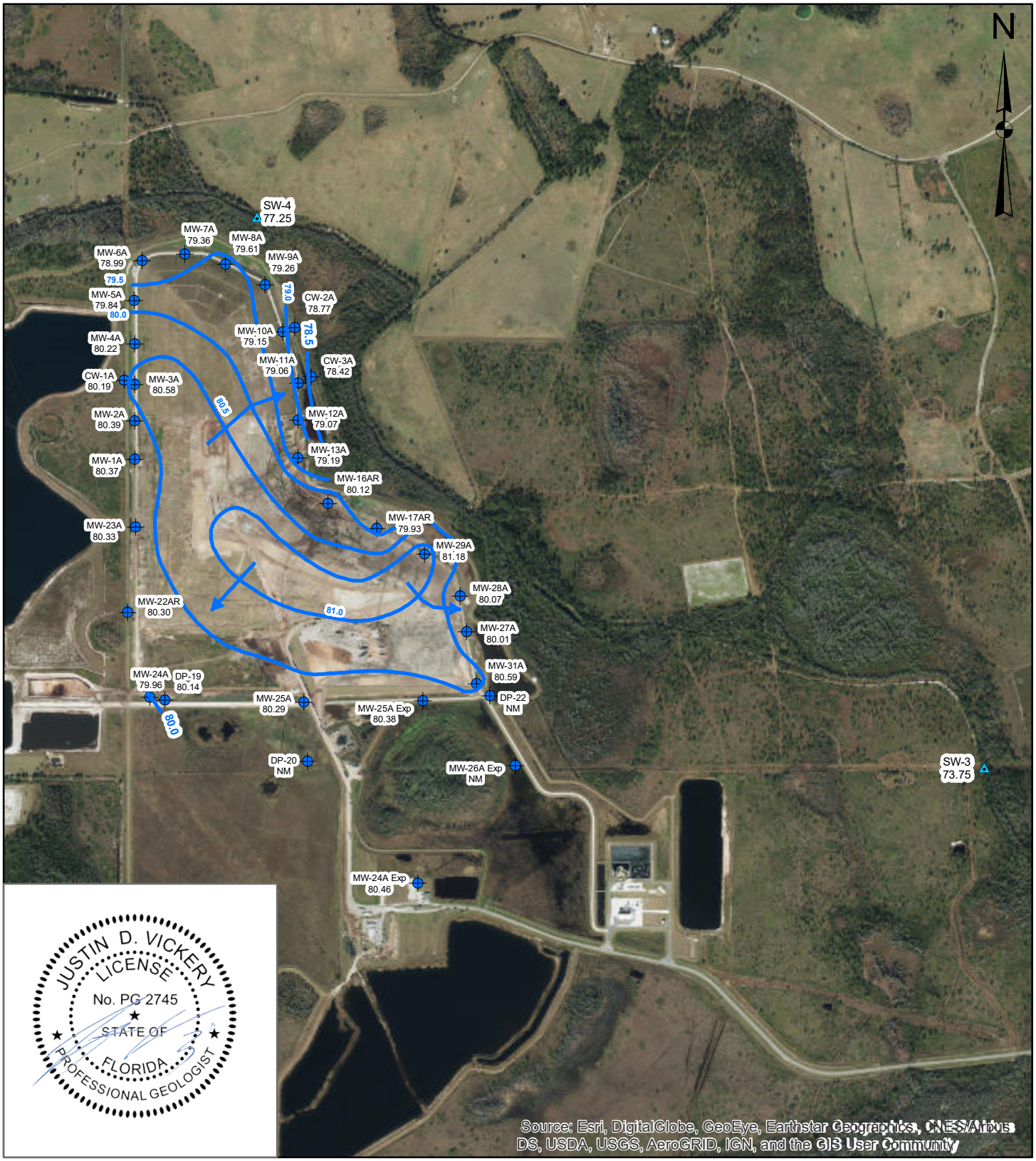
Table 5

SUMMARY OF SURFACE WATER FIELD MEASUREMENTS AND ANALYTICAL RESULTS
27th SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

Parameter Monitored	FL-SWQC Class III / or SWCTL	Units	Monitoring Results	
			SW-3 (Downstream)	SW-4 (Upstream)
Field Parameters				
Dissolved Oxygen	38% Saturation(1)	mg/l	3.00	1.91
pH	Not less than background (2)	SU	5.34	4.52
Conductivity	< 50% above background or 1,275, whichever is	µS/cm	235	92
Temperature at Sampling Time	--	°C	17.63	16.64
Turbidity	< 29 above background	NTU	1.6	0.5
Water Elevation(3)	--	feet	73.75	77.25
Laboratory Parameters				
Acetone	1,700	ug/L	74	2.6 i
Barium	-	ug/L	22	13
Calcium	-	mg/L	14	4.2
Iron	1	mg/L	1.1	1.4
Magnesium	--	mg/L	4.5	2.1
COD	-	mg/L	73	79
Fecal Coliform	800	#/100 mL	20	380
Hardness as CaCO3	-	mg/L	52	19
Nitrogen, Total as N	-	mg/L	1.8	1.6
Organic Carbon, Total	-	mg/L	22	23
Phosphorus, Total	-	mg/L	0.11	0.17
Total Dissolved Solids	-	mg/L	220	120
Total Suspended Solids	-	mg/L	3.4	4.2

Notes:
Only parameters with detetctions above the Method Reporting Limit are shown.
(1): Per 62-302.533(1)(a)2
(2): Per 62-302.530(96)(c); If natural background is less than 6 units, in predominantly fresh waters the pH shall not vary below natural background or vary more than one unit above natural background. The pH of SW-3 and SW-4 reported in the initial site investigation (Hydrogeologic Investigation Report and Water Quality Monitoring Plan, Kubal-Furr & Associates, April 2002) was 5.86 and 5.40 SU's, respectively.
(3): Surface Water Elevations referenced to NGVD 1929
Concentrations in shaded cells did not meet the GCTL or FL-SWQC Class III Criteria.
i = The reported value is between the laboratory Method Detection Limit and the laboratory Practical Quantitation Limit
U = indicates that the compound was analyzed for but not detected at or above the value shown

FIGURES



JUSTIN D. VICKERY
LICENSE
No. PG 2745
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

0 625 1,250
Feet

Legend

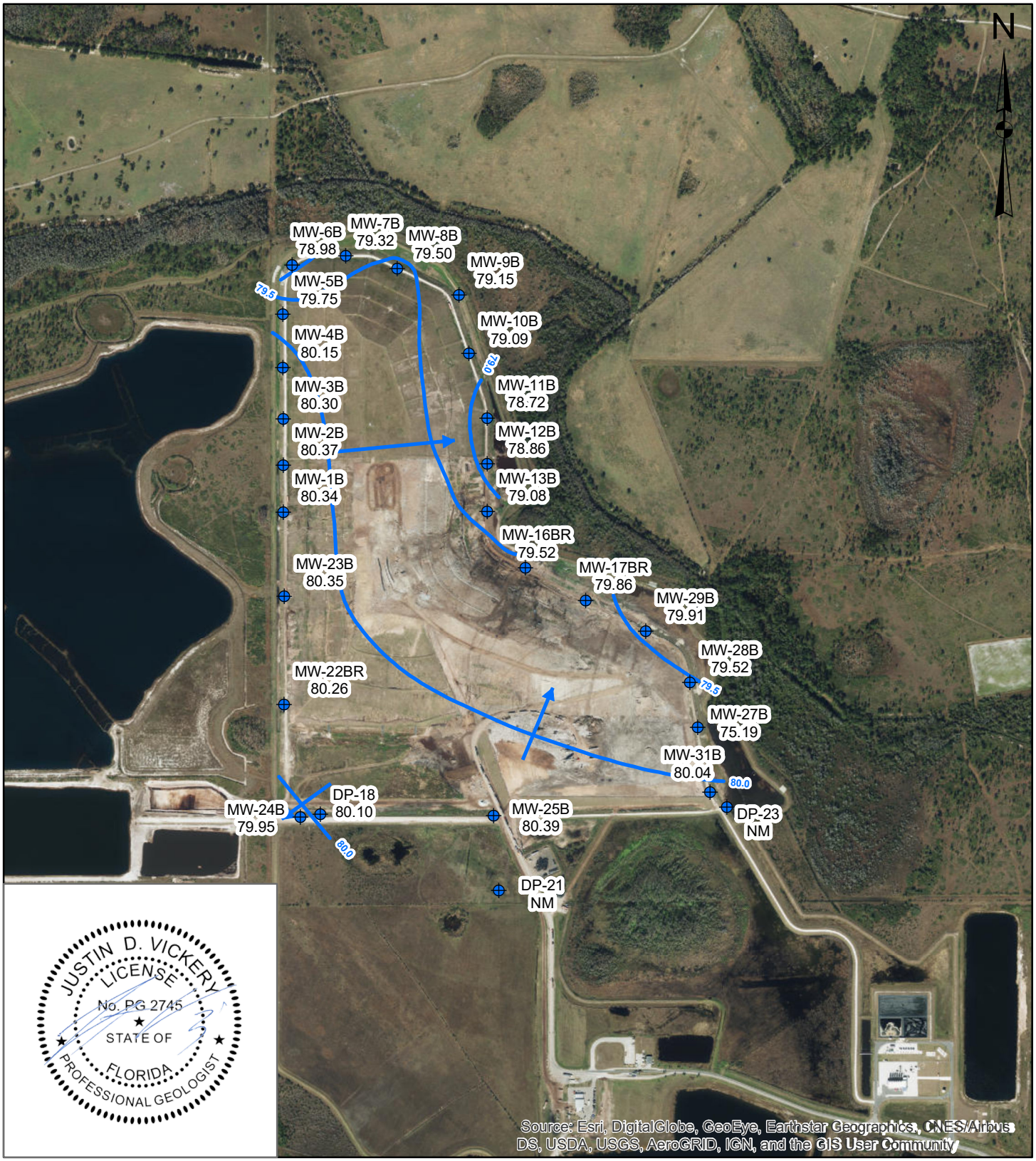
- MW-1A 80.37 — Monitoring Well and Groundwater Elevation (feet above NGVD)
- Groundwater Elevation Contour
- Assumed Groundwater Elevation Contour
- Groundwater Flow Direction
- SW-3 73.75 — Surface Water Sample Location

Potentiometric Surface Map "A"-Zone (Shallow) Wells November 2017

J.E.D. Solid Waste Management Facility
1501 Omni Way
St. Cloud, Osceola County, FL 34773

Environmental Planning Specialists, Inc.
F:\WSI\WSI - JED\GIS

Figure No.1A



0 500 1,000
Feet

Legend

MW-1B 80.34 — Monitoring Well and Groundwater Elevation (feet above NGVD)

Groundwater Elevation Contour

Assumed Groundwater Elevation Contour

Groundwater Flow Direction

Potentiometric Surface Map "B"-Zone (Intermediate) Wells November 2017

J.E.D. Solid Waste Management Facility
1501 Omni Way
St. Cloud, Osceola County, FL 34773

Environmental Planning Specialists, Inc.
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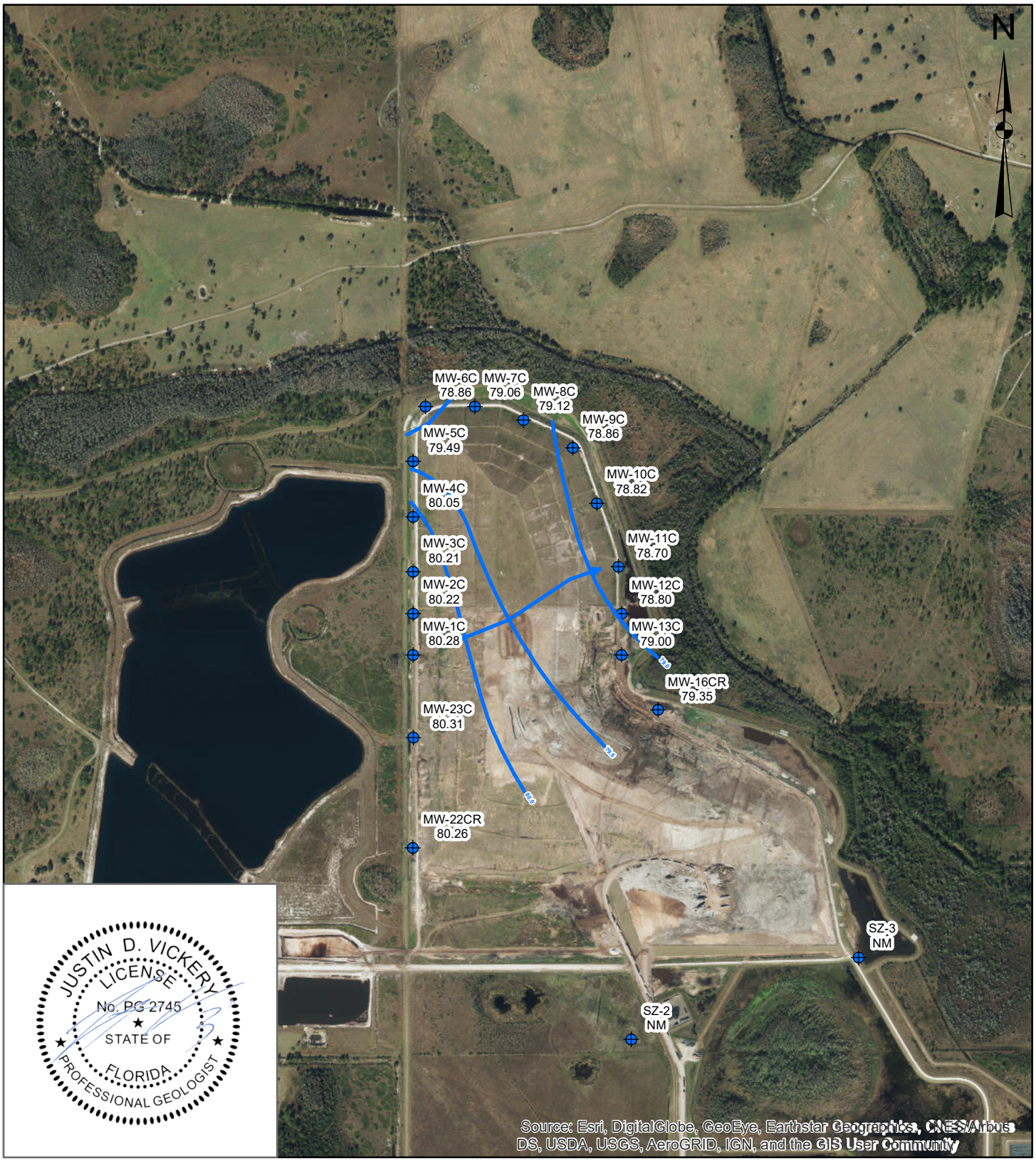
Figure No.1B



Potentiometric Surface Map
"C"-Zone (Deep) Wells
November 2017

J.E.D. Solid Waste Management Facility
1501 Omni Way
St. Cloud, Osceola County, FL 34773

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. Soild Waste Management Facility

Address 1501 Omni Way

City Saint Cloud Zip 34773 County Osceola

Telephone Number (407) 891-3720

(2) WACS Facility ID 89544

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

(4) Authorized Representative's Name Kirk Wills Title South 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.

January 17, 2018
(Date)

Kirk Wills
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Environmental Planning Specialists, Inc.

Analytical Lab NELAC / HRS Certification # E82574

Lab Name Advanced Environmental Laboratories, Inc.

Address 6681 Southpoint Parkway, Jacksonville, Florida 32216

Phone Number (904) 363-9350

Email address (if available) CMyers@AELLab.com

APPENDIX B
Monitoring Well Sampling Logs

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-1A	SAMPLE ID: 17318-MW-1A	DATE: 11-14-17

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): 14.80	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 feet – 14.80 feet) X 0.16 gallons/foot = 1.3 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1425	TOTAL VOLUME PURGED (gallons): 3.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1418	3.041	3.041	0.08	15.29	4.415	27.23	1961	0.32	3.6	clear	-43.2
1422	0.32	3.36	0.08	15.29	4.43	27.26	1964	0.32	3.5	clear	-43.1
1425	0.24	3.6	0.08	15.29	4.43	27.23	1965	0.32	4.1	clear	-42.2

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: 1455
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 No	TUBING No (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)
17318-	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
MW-1A	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	325
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	325
"	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	325

REMARKS: Weather: M. Cloudy, 79°F, N 15mph Blind duplicate collected: 17318-Dup-1 time: 1200
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-1B	SAMPLE ID: 17318-MW-1B	DATE: 11-14-17

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): 14.68	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)

= (feet – feet) X 0.16 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 55 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1340	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1352	0.96	0.96	0.08	14.75	4.14	26.58	1411	0.33	1.1	clear	-68.2
1355	0.24	1.2	0.08	14.75	4.13	26.60	1419	0.29	1	clear	-67.9
1400	0.4	1.6	0.08	14.75	4.14	26.61	1423	0.26	1	clear	-68.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1400	SAMPLING ENDED AT: 1410
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 No	TUBING No (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)
17318-MW-1B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	325
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	325
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	325

REMARKS: Weather: m.cloudy, 79°F, N 15mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-2A	SAMPLE ID: 17332-MW-2A	DATE: 11-28-17

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): 15.60	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 – 15.60 feet) X 0.16 gallons/foot = 1.12 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1140	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1125	2.25	2.25	0.05	15.87	4.33	25.96	1142	0.25	0.9	clear	73.1
1130	0.25	2.5	0.05	15.87	4.32	25.98	1142	0.26	0.9	clear	71.6
1135	0.25	2.75	0.05	15.87	4.31	25.96	1142	0.26	1.3	clear	71.6
1140	0.25	3	0.05	15.87	4.31	25.94	1144	0.26	1	clear	72.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1140	SAMPLING ENDED AT: 1152
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 No	TUBING No (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)
17332-MW-2A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Mostly Sunny, 70°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-2B	SAMPLE ID: 17332-MW-2B	DATE: 11-28-17

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): 15.58	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 0.16 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1040	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 1

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1050	0.5	0.5	0.05	15.63	4.31	25.47	1294	0.38	1.3	clear	72.4
1055	0.25	0.75	0.05	15.63	4.31	25.40	1291	0.33	1.3	clear	70.8
1100	0.25	1	0.05	15.63	4.30	25.41	1283	0.27	0.8	clear	68.7

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1115
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 No	TUBING No (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)
17332-MW-2B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: M. sunny, 78°F
Odor: sulfur-like

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-3A	SAMPLE ID: 17332-MW-3A	DATE: 11-28-17

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): 14.70	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)
= (22.8 feet – 14.70 feet) X 0.16 gallons/foot = 1.3 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0952	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0935	2.25	2.25	0.05	15.41	5.18	26.36	1601	0.3	13.7	clear	33.7
0940	0.25	2.5	0.05	15.41	5.19	26.30	1594	0.3	13.6	clear	34.4
0948	0.4	2.9	0.05	15.41	5.24	26.35	1580	0.29	12.5	clear	33.6
0950	0.1	3	0.05	15.41	5.25	26.39	1578	0.29	14.2	clear	33.4
0952	0.1	3.1	0.05	15.41	5.26	26.38	1575	0.29	12	clear	33.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0955	SAMPLING ENDED AT: 1006
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 No	TUBING No (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)
17332-MW-3A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Clear, 71°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-3B	SAMPLE ID: 17332-MW-3B	DATE: 11-28-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37.6 feet to 47.6 feet	STATIC DEPTH TO WATER (feet): 15.03	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X 0.16 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0915	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0900	0.7	0.7	0.07	15.10	4.24	25.86	1708	0.38	1.2	clear	59.7
0905	0.35	1.05	0.07	15.10	4.24	25.91	1710	0.34	1	clear	59.1
0915	0.7	1.75	0.07	15.10	4.25	25.92	1723	0.27	1.2	clear	58.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0928
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 No	TUBING No (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)
17332-MW-3B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
〃	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: clear, 71°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-4A	SAMPLE ID: 17332-MW-4A	DATE: 11-28-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 13.1 feet to 23.1 feet	STATIC DEPTH TO WATER (feet): 15.75	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)
= (23.1 feet – 15.75 feet) X 0.16 gallons/foot = 1.2 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0710	PURGING ENDED AT: 0810	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0803	2.65	2.65	0.05	16.13	5.11	25.49	1542	0.34	2.6	clear	-20.7
0805	0.1	2.75	0.05	16.13	5.11	25.52	1536	0.33	2.7	clear	-20.7
0807	0.1	2.85	0.05	16.13	5.11	25.53	1533	0.32	2.4	clear	-21
0810	0.15	3	0.05	16.13	5.10	25.53	1531	0.30	2.1	clear	-20.8

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0810	SAMPLING ENDED AT: 0820
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 No	TUBING No (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)
17332-MW-4A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Clear, 62°F
Odor: sulfur-like

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-4B	SAMPLE ID: 17332-MW-4B	DATE: 11-28-17

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): 15.52	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0710	PURGING ENDED AT: 0740	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0723	1.04	1.04	0.08	15.74	4.46	25.18	1767	1.01	1.2	clear	141.4
0730	0.56	1.6	0.08	15.74	4.40	25.44	1770	0.5	1.3	clear	131.4
0735	0.4	2	0.08	15.74	4.38	25.51	1773	0.36	0.6	clear	121.6
0740	0.4	2.4	0.08	15.74	4.37	25.50	1774	0.35	0.7	clear	120.6

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0740	SAMPLING ENDED AT: 0747
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 No	TUBING No (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)
17332-MW-4B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	300

REMARKS: Weather: Clear, 62°F
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-5A	SAMPLE ID: 17331-MW-5A	DATE: 11-27-17

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): 15.96	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 – 15.96 feet) X 0.16 gallons/foot = 1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1435	PURGING ENDED AT: 1535	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1520	2.25	2.25	0.05	16.25	5.71	27.13	445	0.22	9.7	clear	-115.6
1525	0.25	2.5	0.05	16.25	5.70	26.941	446	0.23	10.8	clear	-119.3
1530	0.25	2.75	0.05	16.25	5.68	26.96	443	0.23	9.8	clear	-119.5
1535	0.25	3	0.05	16.25	5.67	26.94	441	0.22	9.8	clear	-119.8

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1540	SAMPLING ENDED AT: 1550
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 No	TUBING No (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)
17331-MW-5A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: M-Sunny, 75°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-5B	SAMPLE ID: 17331-MW-5B	DATE: 11-27-17

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): 16.02	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1435	PURGING ENDED AT: 1455	TOTAL VOLUME PURGED (gallons): 1.6

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1440	0.4	0.4	0.08	16.11	4.51	26.85	1458	0.49	0.9	clear	4
1445	0.4	0.8	0.08	16.11	4.49	26.87	1471	0.39	0.6	clear	0.7
1450	0.4	1.2	0.08	16.11	4.51	26.82	1477	0.36	0.6	clear	-0.4
1455	0.4	1.6	0.08	16.11	4.50	26.81	1480	0.34	0.6	clear	-1.5

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1508
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 No	TUBING No (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)
17331-MW-5B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	300

REMARKS: Weather: M. Sunny. 75°F
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-6A	SAMPLE ID: 17331-MW-6A	DATE: 11-27-17

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): 16.28	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)
= (22.6 feet – 16.28 feet) X 0.16 gallons/foot = 1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1405	TOTAL VOLUME PURGED (gallons): 2.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1355	2.25	2.25	0.05	16.43	5.65	26.10	430	0.3	3	clear	-63.1
1400	0.25	2.5	0.05	16.43	5.66	26.07	429	0.29	2	clear	-63.2
1405	0.25	2.75	0.05	16.43	5.66	26.05	427	0.28	2	clear	-63.7

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1415
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 No	TUBING No (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)
17331-MW-6A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
↓	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: M. Sunny, 75°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-6B	SAMPLE ID: 17331-MW-6B	DATE: 11-27-17

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): 16.18	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1335	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1322	0.84	0.84	0.07	16.39	4.51	25.95	147	0.6	0.6	Clear	-33.1
1325	0.21	1.05	0.07	16.39	4.51	26.00	144	0.58	0.3	Clear	-31
1330	0.35	1.4	0.07	16.39	4.51	26.05	143	0.57	0.8	Clear	-29.2
1335	0.35	1.75	0.07	16.39	4.51	26.03	143	0.55	0.2	Clear	-29.0

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1335	SAMPLING ENDED AT: 1345
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 No	TUBING No (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)
17331-MW-6B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: M. Sunny, 75°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-7A	SAMPLE ID: 17325-MW-7A	DATE: 11-21-17

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): 16.85	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 – 16.85 feet) X 0.16 gallons/foot = 1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0847	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (gallons): 3.36

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0926	2.73	2.73	0.07	16.93	4.96	24.55	235	0.39	0.8	clear	18.6
0930	0.28	3.01	0.07	16.93	4.96	24.55	236	0.39	0.8	clear	18.1
0935	0.35	3.36	0.07	16.93	4.96	24.55	235	0.38	0.9	clear	17.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: 0943
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 No	TUBING No (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)
17325-MW-7A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: Overcast, 70°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-7B	SAMPLE ID: 17325-MW-7B	DATE: 11-21-17

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): 16.64	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0847	PURGING ENDED AT: 0905	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0854	0.49	0.49	0.07	16.90	4.15	24.18	608	0.57	0.9	clear	62.5
0858	0.28	0.77	0.07	16.90	4.14	24.15	595	0.37	0.8	clear	59.4
0900	0.14	0.91	0.07	16.90	4.13	24.16	594	0.35	0.5	clear	58.8
0905	0.35	1.26	0.07	16.90	4.13	24.17	593	0.34	0.6	clear	58.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT: 0915
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 No	TUBING No (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)
17325-	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	
MW-7B	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	

REMARKS: Weather: Overcast, 70°F
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-8A	SAMPLE ID: 17325-MW-8A	DATE: 11-21-17

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): 15.89	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 – 15.89 feet) X 0.16 gallons/foot = 1.1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0725	PURGING ENDED AT: 0815	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0800	2.45	2.45	0.07	16.48	4.20	24.96	1537	2.30	2.8	clear	61.5
0805	0.35	2.8	0.07	16.49	4.20	25.01	1544	0.31	2.9	clear	63.1
0810	0.35	3.15	0.07	16.49	4.20	25.00	1548	0.23	2.9	clear	65.8
0815	0.35	3.5	0.07	16.49	4.20	25.03	1549	0.23	2.8	clear	66.0

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0915	SAMPLING ENDED AT: 0823
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 No	TUBING No (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)
17325-MW-8A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
↓	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: P. Cloudy, 64°F
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-8B	SAMPLE ID: 17325-MW-8B	DATE: 11-21-17

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): 15.84	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 45	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 45	PURGING INITIATED AT: 0725	PURGING ENDED AT: 0745	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0735	0.7	0.7	0.07	16.53	4.23	24.11	1103	0.8	2.8	clear	42.4
0740	0.35	1.05	0.07	16.53	4.21	24.12	1099	0.59	3	clear	41.5
0745	0.35	1.4	0.07	16.53	4.21	24.13	1098	0.57	2.4	clear	41.6

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0745	SAMPLING ENDED AT: 0754
PUMP OR TUBING DEPTH IN WELL (feet): 45	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP No	TUBING No (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)
17325-MW-8B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: p. cloudy, 64°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-9A	SAMPLE ID: 17325-MW-9A	DATE: 11-21-17

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): 16.11	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 – 16.11 feet) X 0.16 gallons/foot = 1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0600	PURGING ENDED AT: 0653	TOTAL VOLUME PURGED (gallons): 2.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0645	2.25	2.25	0.05	16.53	5.23	26.18	298	0.29	4.1	clear	-44.6
0648	0.15	2.4	0.05	16.53	5.22	26.19	297	0.31	4	clear	-45.4
0653	0.25	2.65	0.05	16.53	5.21	26.18	297	0.29	3.9	clear	-46.9

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0655	SAMPLING ENDED AT: 0705
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 No	TUBING No (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)
17325-MW-9A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: clear, 64°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-9B	SAMPLE ID: 17325-MW-9B	DATE: 11-21-17

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): 16.13	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 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 55 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 0600	PURGING ENDED AT: 0625	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0610	0.5	0.5	0.05	16.62	4.22	25.53	605	0.75	0.2	clear	110.5
0617	0.35	0.85	0.05	16.62	4.28	25.63	598	0.39	0.2	clear	94.1
0620	0.15	1	0.05	16.62	4.28	25.59	598	0.36	0.2	clear	93.1
0625	0.25	1.25	0.05	16.62	4.29	25.59	597	0.35	0.2	clear	92.5

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0625	SAMPLING ENDED AT: 0635
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 No	TUBING No (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)
17325-MW-9B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Clear, 64°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-10A	SAMPLE ID: 17324-MW-10A	DATE: 11-20-17

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): ~~17.69~~ 17.66	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 – 17.66 feet) X 0.16 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1253	TOTAL VOLUME PURGED (gallons): 3.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1235	2.25	2.25	0.05	17.95	4.85	26.15	629	2.92	2.3	clear	-2.5
1245	0.5	2.75	0.05	17.95	4.84	26.10	633	0.56	2.4	clear	-3.8
1250	0.25	3	0.05	17.95	4.84	26.13	634	0.48	2.1	clear	-4.7
~~1253~~ 1253	0.15	3.15	0.05	17.95	4.84	26.15	635	0.43	2.2	clear	-5.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1255	SAMPLING ENDED AT: 1305
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 No	TUBING No (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)
17324-MW-10A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: clear, 76°F, ENE 12mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-10B	SAMPLE ID: 17324-MW-10B	DATE: 11-20-17

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): 17.69	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 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 55 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 1150	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1200	0.5	0.5	0.05	17.77	3.90	26.08	1005	0.741	1.7	clear	59.3
1205	0.25	0.75	0.05	17.77	3.90	25.99	1012	0.46	0.9	clear	58.3
1210	0.25	1	0.05	17.77	3.88	25.98	1013	0.46	0.6	clear	58.8
1215	0.25	1.25	0.05	17.77	3.89	25.97	1013	0.45	0.6	clear	57.8

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1225
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 No	TUBING No (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)
17324-MW-10B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Mi Sunny, 76°F, ENE 12mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-11A	SAMPLE ID: 17324-MW-11A	DATE: 11-20-17

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): 15.05	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 – 15.05 feet) X 0.16 gallons/foot = 1.2 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1120	TOTAL VOLUME PURGED (gallons): 2.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1110	2.25	2.25	0.05	16.34	4.61	28.27	528	0.19	6.5	clear	24
1115	0.25	2.5	0.05	16.35	4.61	28.25	529	0.19	5.7	clear	24.1
1120	0.25	2.75	0.05	16.35	4.61	28.28	528	0.19	5.6	clear	24.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1134
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 No	TUBING No (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)
17324-MW-11A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Clear, 66°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-11B	SAMPLE ID: 17324-MW-11B	DATE: 11-20-17

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): 15.39	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 1025	PURGING ENDED AT: 1050	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1040	0.75	0.75	0.05	15.53	5.16	27.91	86	0.416	1.9	clear	28.7
1045	0.25	1	0.05	15.53	5.16	27.98	86	0.415	1.9	clear	26.5
1050	0.25	1.25	0.05	15.53	5.15	27.98	85	0.413	2	clear	26.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1050	SAMPLING ENDED AT: 1103
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 No	TUBING No (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)
17324-MW-11B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Clear, 68°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-12A	SAMPLE ID: 17324-MW-12A	DATE: 11-20-17.

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): 16.53	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 – 16.53 feet) X 0.16 gallons/foot = 1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0950	TOTAL VOLUME PURGED (gallons): 4.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0942	3.64	3.64	0.07	17.02	4.27	26.80	4136	0.27	0.9	clear	86.7
0945	0.21	3.85	0.07	17.02	4.26	26.79	4136	0.26	0.9	clear	87
0950	0.35	4.2	0.07	17.02	4.25	26.80	4136	0.29	0.9	clear	87.2

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0950	SAMPLING ENDED AT: 1000
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 No	TUBING No (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)
17324-MW-12A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: Clear, 60°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-12B	SAMPLE ID: 17324-MW-12B	DATE: 11-20-17

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): 16.62	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 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 55 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 44	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 44	PURGING INITIATED AT: 0850	PURGING ENDED AT: 0923	TOTAL VOLUME PURGED (gallons): 2.97

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0910	1.8	1.8	0.09	16.81	4.86	26.14	78	0.27	0.7	clear	70.2
0915	0.45	2.25	0.09	16.81	4.88	26.16	77	0.29	0.7	clear	69
0920	0.45	2.7	0.09	16.81	4.87	26.12	77	0.29	0.6	clear	69.7
0923	0.27	2.97	0.09	16.81	4.85	26.18	77	0.29	0.5	clear	69.7

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0925	SAMPLING ENDED AT: 0934
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 No	TUBING No (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)
17324-MW-12B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	350
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	350

REMARKS: Weather: Clear, 60°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-13A	SAMPLE ID: 17324-MW-13A	DATE: 11-20-17

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): 16.32	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 – 16.32 feet) X 0.16 gallons/foot = 1 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0725	PURGING ENDED AT: 0815	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0805	2.8	2.8	0.07	17.17	4.55	26.60	701	0.29	1.2	clear	46.2
0810	0.35	3.15	0.07	17.18	4.58	26.70	717	0.27	1.4	clear	48.8
0813	0.21	3.36	0.07	17.18	4.58	26.76	719	0.26	1.1	clear	48.7
0815	0.14	3.5	0.07	17.18	4.58	26.78	722	0.26	1.2	Clear	49.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0815	SAMPLING ENDED AT: 0825
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 No	TUBING No (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)
17324-MW-13A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
"	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: Clear, 53°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-13B	SAMPLE ID: 17324-MW-13B	DATE: 11-20-17

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): 16.34	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 0.16 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0725	PURGING ENDED AT: 0750	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0735	0.7	0.7	0.07	16.42	4.77	25.70	115	0.38	1.1	clear	71.5
0740	0.35	1.05	0.07	16.42	4.76	25.79	114	0.4	0.3	clear	62.7
0745	0.35	1.4	0.07	16.42	4.73	25.81	112	0.3	0.3	clear	63.1
0750	0.35	1.75	0.07	16.42	4.73	25.83	113	0.3	0.5	clear	63.2

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0750	SAMPLING ENDED AT: 0800
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 No	TUBING No (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)
17324-MW-13B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: Clear, 53°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-16AR	SAMPLE ID: 17324-MW-16AR	DATE: 11-20-17

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): 15.20	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)
= (23.9 feet – 15.20 feet) X 0.16 gallons/foot = 1.4 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0545	PURGING ENDED AT: 0640	TOTAL VOLUME PURGED (gallons): 3.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0632	3.29	3.29	0.07	16.29	5.74	26.20	1941	0.26	4.6	clear	1.8
0635	0.21	3.5	0.07	16.29	5.73	26.18	1961	0.35	4.4	clear	2.5
0640	0.35	3.85	0.07	16.29	5.73	26.15	1966	0.25	4.1	clear	2.5

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0640	SAMPLING ENDED AT: 0700
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 No	TUBING No (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)
17324-MW-16AR	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: Clear, 53°F Collected Blind duplicate. ID: 17324-Dup-2 time: 1200
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-16BR	SAMPLE ID: 17324-MW-16BR	DATE: 11-20-17

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): 15.74	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 42	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 42	PURGING INITIATED AT: 0545	PURGING ENDED AT: 0610	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0600	1.35	1.35	0.09	15.85	4.70	25.34	100	0.27	1.2	clear	-28.9
0605	0.45	1.8	0.09	15.85	4.68	25.33	99	0.26	1.1	clear	-29.6
0610	0.45	2.25	0.09	15.85	4.70	25.35	98	0.23	1	clear	-33.0

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0615	SAMPLING ENDED AT: 0623
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 No	TUBING No (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)
17324-MW-16BR	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	350
to	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	350

REMARKS: Weather: Clear, 53°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-17AR	SAMPLE ID: 17320-MW-17AR	DATE: 11-16-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12 feet to 24 feet	STATIC DEPTH TO WATER (feet): 15.04	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)

= (24.1 feet – 15.04 feet) X 0.16 gallons/foot = 1.4 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0720	PURGING ENDED AT: 0810	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0800	2.4	2.4	0.06	15.37	4.15	26.05	913	1.39	0.5	clear	107.6
0805	0.3	2.7	0.06	15.37	4.14	26.07	913	1.32	0.9	clear	108.6
0810	0.3	3	0.06	15.37	4.14	26.06	914	1.24	0.8	clear	109.6

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0810	SAMPLING ENDED AT: 0822
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 No	TUBING No (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)
17320-MW-17AR	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	225
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	225
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	225
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	225

REMARKS: Weather: p. cloudy, 60°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-17BR	SAMPLE ID: 17320-MW-17BR	DATE: 11-16-17

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): 15.05	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 gallons/foot = gallons

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

= C gallons + (0.0014 gallons/foot X 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet) 43	PURGING INITIATED AT 0720	PURGING ENDED AT 0740	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0725	0.3	0.3	0.06	16.26	5.04	25.04	112	0.4	1.9	clear	-8
0730	0.3	0.6	0.06	16.31	5.06	25.07	114	0.45	2.5	clear	-14.2
0735	0.3	0.9	0.06	16.28	5.04	25.01	113	0.25	2.4	clear	-13.2
0740	0.3	1.2	0.06	16.28	5.03	25.03	114	0.24	2.5	clear	-12.7

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0740	SAMPLING ENDED AT: 0752
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 No	TUBING No (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)
17320-MW-17BR	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	225
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	225
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	225
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	225

REMARKS: Weather: p.cloudy, 60°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-22AR	SAMPLE ID: 17318-MW-22AR	DATE: 11-14-17

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): 14.79	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)
= (23.7 feet – 14.79 feet) X 0.16 gallons/foot = 1.4 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 1035	PURGING ENDED AT: 1125	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1117	2.94	2.94	0.07	15.08	5.96	27.17	786	0.05	6.1	clear	-163.4
1120	0.21	3.15	0.07	15.08	5.95	27.10	789	0.04	5.41	clear	-162.9
1125	0.35	3.5	0.07	15.08	5.94	27.18	789	0.04	5.1	clear	-162.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1125	SAMPLING ENDED AT: 1135
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 No	TUBING No (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)
17318-MW-22AR	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	275
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: m. cloudy, 77°F, N 13 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-22BR	SAMPLE ID: 17318-MW-22BR	DATE: 11-14-17

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): 14.68	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)

= (feet – feet) X 0.16 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 1035	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1048	0.91	0.91	0.07	14.73	4.36	26.38	400	0.23	1.5	clear	-22.4
1054	0.42	1.33	0.07	14.73	4.37	26.32	399	0.15	1.3	clear	-24.2
1100	0.42	1.75	0.07	14.73	4.36	26.36	399	0.15	1.2	clear	-24.9

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1112
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 No	TUBING No (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)
17318-	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	275
MW-22BR	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
↓	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: M. Cloudy, 77°F, N 13mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-23A	SAMPLE ID: 17318-MW-23A	DATE: 11-14-17

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): 17.60	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 – 17.60 feet) X 0.16 gallons/foot = 1.6 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 23	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23	PURGING INITIATED AT: 1212	PURGING ENDED AT: 1305	TOTAL VOLUME PURGED (gallons): 3.71

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1256	3.08	3.08	0.07	18.03	5.87	28.17	642	0.12	4.9	clear	-139.5
1300	0.28	3.36	0.07	18.03	5.90	28.12	643	0.13	6.4	clear	-140.0
1303	0.21	3.57	0.07	18.03	5.92	28.13	643	0.12	7.6	clear	-140.7
1305	0.14	3.71	0.07	18.03	5.93	28.17	644	0.11	7.3	clear	-140.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT: 1318
PUMP OR TUBING DEPTH IN WELL (feet): 23	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP No	TUBING No (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)
17318-MW-23A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	275
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: m.cloudy, 79°F, NNE 14.3pk
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-23B	SAMPLE ID: 17318-MW-23B	DATE: 11-14-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 32.3 feet to 42.3 feet	STATIC DEPTH TO WATER (feet): 17.60	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 1210	PURGING ENDED AT: 1235	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1220	0.9	0.9	0.09	17.64	4.14	27.16	1638	0.59	1.3	clear	-37
1225	0.45	1.35	0.09	17.64	4.08	26.89	1638	0.3	0.8	clear	-32.4
1230	0.45	1.8	0.09	17.64	4.07	26.81	1636	0.27	0.7	clear	-32.5
1235	0.45	2.25	0.09	17.64	4.07	26.87	1638	0.25	0.8	clear	-31.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1235	SAMPLING ENDED AT: 1247
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 No	TUBING No (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)
17318 MW-23B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	350
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	350

REMARKS: Weather: M. cloudy, 79°F, NNE 14mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-24A	SAMPLE ID: 17318-MW-24A	DATE: 11-14-17

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): 7.24	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 – 7.24 feet) X 0.16 gallons/foot = 2.6 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 27 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 0910	PURGING ENDED AT: 1005	TOTAL VOLUME PURGED (gallons): 3.85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0955	3.15	3.15	0.07	7.30	4.46	25.24	89	1.56	0.7	clear	-3.8
1000	0.35	3.5	0.07	7.30	4.47	25.26	88	1.45	0.5	clear	-7.0
1005	0.35	3.85	0.07	7.30	4.46	25.27	88	1.43	0.8	clear	-5.9

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: 1015
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 No	TUBING No (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)
17318-	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
mw-24A	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: Clear, 66°F, N 10 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-24B	SAMPLE ID: 17318-MW-24B	DATE: 11-14-17

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): 7.24	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 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 38	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 38	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (gallons): 1.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0917	0.75	0.75	0.05	7.40	4.35	24.43	52	0.53	4.8	clear	7.1
0920	0.15	0.9	0.05	7.40	4.25	24.39	48	0.37	4.6	clear	8.7
0925	0.25	1.15	0.05	7.40	4.36	24.42	44	0.19	4.6	clear	6.9
0930	0.25	1.4	0.05	7.40	4.33	24.38	45	0.16	3.9	clear	8.0
0935	0.25	1.65	0.05	7.40	4.32	24.41	44	0.15	4.1	clear	7.9

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: 0945
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 No	TUBING No (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)
17318-MW-24B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	200
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	200
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	200

REMARKS: Weather: Clear, 66°F, N 10 mph
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-25A	SAMPLE ID: 17320-MW-25A	DATE: 11-16-17

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): 6.80	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)

= (feet – feet) X 0.16 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 30 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1215	TOTAL VOLUME PURGED (gallons): 2.7

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1157	1.08	1.08	0.09	6.92	4.57	25.15	966	0.21	1.6	clear	10.7
1207	0.9	1.98	0.09	6.92	4.57	25.53	974	0.19	0.7	clear	6.3
1210	0.27	2.25	0.09	6.92	4.57	25.60	976	0.19	0.8	clear	5.9
1215	0.415	2.7	0.09	6.92	4.58	25.56	976	0.19	0.7	clear	5.6

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1225
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 No	TUBING No (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)
17320-MW-25A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	350
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	350

REMARKS: Weather: M. sunny, 74°F, N10mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-25B	SAMPLE ID: 17320-MW-25B	DATE: 11-16-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 31 feet to 41 feet	STATIC DEPTH TO WATER (feet): 6.39	PURGE PUMP TYPE OR BAILER: ESP

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 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 + (0.006 gallons/foot X 50 feet) + 0.12 gallons = 0.4 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 36	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 36	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1250	TOTAL VOLUME PURGED (gallons): 52

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1235	40	40	0.8	7.62	4.93	24.28	122	0.22	57.2	Slightly Cloudy	129
1245	8	48	0.8	7.62	4.89	24.20	123	0.22	53	" "	12
1250	4	52	0.8	7.62	4.90	24.21	123	0.22	53	" "	11.7

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1250	SAMPLING ENDED AT: 1258
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 Yes	TUBING No (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)
17320-MW-25B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	ESP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	ESP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	ESP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	ESP	300

REMARKS: Weather: M. Sunny, 74°F, N 10mph
Odor: none Initial turbidity: 155 NTU

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-27A	SAMPLE ID: 17318-MW-27A	DATE: 11-14-17

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): 14.69	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)
= (23.6 feet – 14.69 feet) X 0.16 gallons/foot = 1.4 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 0600	PURGING ENDED AT: 0700	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0650	4	4	0.08	15.40	4.27	25.77	78	0.19	3.2	clear	-65.4
0655	0.4	4.4	0.08	15.40	4.27	25.79	80	0.15	3.9	clear	-67.5
0700	0.4	4.8	0.08	15.40	4.26	25.81	80	0.13	3.9	clear	-66.1

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0705	SAMPLING ENDED AT: 0715
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 No	TUBING No (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)
17318-MW-27A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	300
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	300

REMARKS: Weather: Clear, 66°F, N 9 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-27B	SAMPLE ID: 17318-MW-27B	DATE: 11-14-17

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): 14.90	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)
= (feet – feet) X 0.16 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 50 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 0600	PURGING ENDED AT: 0630	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0620	1.4	1.4	0.07	15.17	5.05	24.52	148	0.24	5.2	clear	-76.8
0625	0.35	1.75	0.07	15.17	5.04	24.53	148	0.28	4.9	clear	-77.7
0630	0.35	2.1	0.07	15.17	5.04	24.51	147	0.32	4.8	clear	-77.6

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0635	SAMPLING ENDED AT: 0643
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 No	TUBING No (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)
17318-	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
MW-27B	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
↓	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: Clear, 66°F, N 9 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-28A	SAMPLE ID: 17318-MW-28A	DATE: 11-14-17

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): 14.83	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)

= (24 feet – 14.83 feet) X 0.16 gallons/foot = 1.5 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0730	PURGING ENDED AT: 0825	TOTAL VOLUME PURGED (gallons): 4.95

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0817	4.23	4.23	0.09	15.66	4.83	27.00	276	0.08	4.2	clear	-67.9
0820	0.27	4.5	0.09	15.66	4.83	26.99	276	0.08	2.4	clear	-68.4
0825	0.45	4.95	0.09	15.66	4.83	27.00	276	0.08	3.6	clear	-68.6

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0825	SAMPLING ENDED AT: 0835
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 No	TUBING No (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)
17318-MW-28A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	350
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	350

REMARKS: Weather: clear, 66°F, N 10 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-28B	SAMPLE ID: 17318-MW-28B	DATE: 11-14-17

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): 15.19	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)

= (feet – feet) X 0.16 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 55 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0730	PURGING ENDED AT: 0755	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0740	0.7	0.7	0.07	15.80	4.89	25.26	136	0.44	8.9	clear	-92.9
0745	0.35	1.05	0.07	15.80	4.85	25.14	135	0.23	9.6	clear	-95.4
0748	0.21	1.26	0.07	15.80	4.83	25.17	134	0.19	9.2	clear	-93.8
0753	0.35	1.61	0.07	15.80	4.82	25.20	134	0.18	8.7	clear	-93.7
0755	0.14	1.75	0.07	15.80	4.81	25.21	133	0.18	8.6	clear	-93.7

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0755	SAMPLING ENDED AT: 0805
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 No	TUBING No (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)
17318-MW-28B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
↓	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: Clear, 66°F, N 10 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-29A	SAMPLE ID: 17320-MW-29A	DATE: 11-16-17

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): 13.86	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)

= (23.7 feet – 13.86 feet) X 0.16 gallons/foot = 1.6 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 feet) + 0.12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 19	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 19	PURGING INITIATED AT: 0550	PURGING ENDED AT: 0645	TOTAL VOLUME PURGED (gallons): 3.85

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0635	3.15	3.15	0.07	14.53	4.31	26.41	194	0.35	0.7	clear	33.3
0640	0.35	3.5	0.07	14.53	4.33	26.46	193	0.29	0.6	clear	32
0645	0.35	3.85	0.07	14.53	4.33	26.45	193	0.29	0.7	clear	30.4

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0645	SAMPLING ENDED AT: 0655
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 No	TUBING No (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)
17320-MW-29A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	275
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: p. cloudy, 60°F, NNW 9 mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-29B	SAMPLE ID: 17320-MW-29B	DATE: 11-16-17

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): 14.88	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 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 55 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0550	PURGING ENDED AT: 0615	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0605	1.05	1.05	0.07	15.25	4.72	24.88	198	0.3	1	clear	-26.4
0610	0.35	1.4	0.07	15.25	4.70	24.87	196	0.26	0.9	clear	-28.8
0615	0.35	1.75	0.07	15.25	4.70	24.84	197	0.27	0.7	clear	-30.9

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 0620	SAMPLING ENDED AT: 0630
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 No	TUBING No (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)
17320-MW-29B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	275
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	275
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	275
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	275

REMARKS: Weather: p. cloudy, 60°F, NNW 9 mph
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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-31A	SAMPLE ID: 17320-MW-31A	DATE: 11-16-17

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): 13.73	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)

= (25 feet – 13.73 feet) X 0.16 gallons/foot = 1.8 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 feet) + 0 12 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet) 20	PURGING INITIATED AT: 0900	PURGING ENDED AT: 1105	TOTAL VOLUME PURGED (gallons): 10

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1055	9.2	9.2	0.08	13.88	4.47	26.46	1272	0.17	4.8	clear	24.8
1100	0.4	9.6	0.08	13.88	4.46	26.40	1269	0.17	4.7	Clear	27
1105	0.4	10	0.08	13.88	4.45	26.43	1266	0.17	4.4	Clear	23.9

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S)	SAMPLING INITIATED AT: 1105	SAMPLING ENDED AT: 1115
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 No	TUBING No (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)
17320-	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	150
MW-31A	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	300

REMARKS: Weather: p. cloudy, 64°F, N 11 mph
Odor: none initial turbidity: 77.7 NTU

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: MW-31B	SAMPLE ID: 17320-MW-31B	DATE: 11-16-17

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 36 feet to 46 feet	STATIC DEPTH TO WATER (feet): 13.96	PURGE PUMP TYPE OR BAILER: ESP

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 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 + (0.006 gallons/foot X 60 feet) + 0.12 gallons = 0.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 41	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 41	PURGING INITIATED AT: 0900	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (gallons): 67.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
0950	4.5	4.5	0.9	18.40	5.00	24.59	255	0.44	22	clear	33.9
1000	9	54	0.9	18.41	4.98	24.55	253	0.32	20	clear	30.1
1005	4.5	58.5	0.9	18.44	4.94	24.61	252	0.21	18.9	clear	28
1010	4.5	63	0.9	18.44	4.93	24.55	252	0.22	18.4	clear	27.7
1015	4.5	67.5	0.9	18.44	4.98	24.58	252	0.25	17.6	clear	25.8

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1025
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 Yes	TUBING No (replaced)	(Y) DUPLICATE: ~~(Y)~~	N Equipment Blank

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)
17320-MW-31B	3	CG	40 ml	HCL	Prefilled by lab		VOCs	ESP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	ESP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	ESP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	ESP	300

REMARKS: Weather: p.cloudy, 64°F, N11mph Collected equipment blank w/lab supplied DI H_2O
Odor: none initial turbidity: 222 NTU color: brown

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)

Equipment Blank sample ID: 17320-Equipment Blank
time: 1040

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: GW-1A	SAMPLE ID: 17320-GW-1A	DATE: 11-16-17

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): 4.61	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 0.16 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 25 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1330	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 2.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1342	1.08	1.08	0.09	4.71	4.90	23.79	1055	0.55	1.5	clear	50.4
1345	0.27	1.35	0.09	4.71	4.91	23.76	1054	0.43	1.5	clear	48
1350	0.45	1.8	0.09	4.71	4.93	23.77	1054	0.35	1.1	clear	44.5
1352	0.18	1.98	0.09	4.71	4.95	23.76	1052	0.34	1	clear	42.7
1355	0.27	2.25	0.09	4.71	4.95	23.75	1053	0.33	1	clear	41.3

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1405
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 No	TUBING No (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)
17320-GW-1A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	350
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	350

REMARKS: Weather: M. Cloudy, 75°F, N 10mph

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: CW-2A	SAMPLE ID: 17320-CW-2A	DATE: 11-16-17

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): 4.31	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 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 25 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1425	PURGING ENDED AT: 1450	TOTAL VOLUME PURGED (gallons): 2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1435	0.8	0.8	0.08	4.415	5.36	23.67	1509	0.39	7.9	Clear	27.8
1440	0.4	1.2	0.08	4.415	5.36	23.67	1515	0.36	6.7	Clear	25.7
1445	0.4	1.6	0.08	4.415	5.35	23.66	1518	0.37	7.2	Clear	24.1
1450	0.4	2	0.08	4.415	5.35	23.66	1521	0.35	6.8	Clear	23.0

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT: 1500
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 No	TUBING No (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)
17320-CW-2A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	300
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	300
↓	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	300

REMARKS: Weather: Overcast, 74°F

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: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773	
WELL NO: CW-3A	SAMPLE ID: 17320-CW-3A	DATE: 11-16-17

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): 3.74	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 appliicable)

= (feet – feet) X 0.16 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 25 feet) + 0.12 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 1515	PURGING ENDED AT: 1545	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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1525	0.7	0.7	0.07	3.90	5.00	23.31	2313	0.74	0.6	clear	43.5
1535	0.7	1.4	0.07	3.90	4.74	23.38	2352	0.5	1.3	clear	32.1
1540	0.35	1.75	0.07	3.90	4.72	23.42	2360	0.41	1.2	clear	25.7
1545	0.35	2.1	0.07	3.90	4.72	23.39	2362	0.41	1.3	clear	25.2

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: Joe Terry/EPS	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1545	SAMPLING ENDED AT: 1557
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 No	TUBING No (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)
17320-CW-3A	3	CG	40 ml	HCL	Prefilled by lab		VOCs	APP	250
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	250
	1	PE	250 ml	H2SO4	Prefilled by lab		NH3	APP	250
	1	PE	500 ml	None	None		Cl, NO_3, TDS	APP	250

REMARKS: Weather: Overcast, 74°F

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-SOP-001/01
FT 1100 Field Measurement of Hydrogen Ion Activity (pH)

Form FD 9000-7: Field Parameter Data Sheet for Surface Water

SURVEY/PROJECT: SW-3 / JED SWDF SAMPLERS: J. Terry METER # _____

STATION NUMBER	STATION DESCRIPTION	PARAMETER	DATE	TIME	TOTAL DEPTH	SAMPLE DEPTH	WATER TEMP	DO	%SAT DO	COND	SALINITY	PH	TURBIDITY	ORP
		UNIT	yy/mm/dd	hr:min	feet	feet	Celsius	mg/L	%	µS/cm	ppt	su	NTU	mV
		STORET CODE	73672		81903	68	10	299	301	94	480	400	82078	
SW-3	Bull Creek		17/11/17	0900	1	0.5	17.63	3.00	31.5	235	0.13	5.34	1.6	216.1
	(downstream)													
	sample ID:													
	17321-SW-3													

FIELD CONDITIONS FOR STATION# SW-3 AT TIME 0900 :

CLOUD COVER (%): 0 WIND DIRECTION: V SW Elevation: 73.75' TIDAL STAGE: NA

PREVIOUS RAINFALL: 0 WIND SPEED (MPH/KNOTS): 0 WAVE CONDITIONS: NA

Note: This Sheet is used for recording Sample Data – Calibration information must also be documented

weather: 57°F, clear

Revision Date: February 1, 2004

DEP-SOP-001/01
FT 1100 Field Measurement of Hydrogen Ion Activity (pH)

Form FD 9000-7: Field Parameter Data Sheet for Surface Water

SURVEY/PROJECT: SW-4/JED SWDF SAMPLERS: J. Terry METER # _____

STATION NUMBER	STATION DESCRIPTION	PARAMETER	DATE	TIME	TOTAL DEPTH	SAMPLE DEPTH	WATER TEMP	DO	%SAT DO	COND	SALINITY	PH	TURBIDITY	ORP
		UNIT	yy/mm/dd	hr:min	feet	feet	Celsius	mg/L	%	µS/cm	ppt	su	NTU	mV
		STORET CODE	73672		81903	68	10	299	301	94	480	400	82078	
SW-4	Bull Creek (upstream) Sample ID: 17321-SW-4		17/11/17	0840	1	0.5	16.64	1.91	19.5	92	0.05	4.52	0.5	365.3

FIELD CONDITIONS FOR STATION# SW-4 AT TIME 0840 : SW Elevation: 77.25

CLOUD COVER (%): 0 WIND DIRECTION: 0 TIDAL STAGE: NA

PREVIOUS RAINFALL: 0 WIND SPEED (MPH/KNOTS): 0 WAVE CONDITIONS: NA

Note: This Sheet is used for recording Sample Data – Calibration information must also be documented

weather: clear, 57°F

Revision Date: February 1, 2004

APPENDIX C
Field Instrument Calibration Logs

Field Instrument Calibration Record

Site: JED SWMF

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173AL

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME10404

Date: 11-13-17 Time: 1930

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.00	0	0.2	Y	I	JT
C4751994	6/2018	pH = 7.00	7.00	0	0.2	Y	I	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	10.04	0.4	10%	Y	I	JT
VZ1	1/2019	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1,413	0	5%	Y	I	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	229.2	0.5	NA	Y	C	JT
	Per Table →	D.O. = 9.15 mg/L @ 19.7 °C	9.10	0.05	0.2 mg/l	Y	I	JT

Date: 11-14-17 Time: 1845

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.00	0	0.2	Y	I	JT
C4751994	6/2018	pH = 7.00	7.02	0.02	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	9.85	1.5	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	85	1.2	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1405	0.6	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	229	0.4	NA	Y	C	JT
	Per Table →	D.O. = 8.04 mg/L @ 26.5 °C	7.94	0.1	0.2 mg/l	Y	C	JT

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 5 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L; Turbidity 0.1-10 NTU ± 10% of Standard Value, 11-40 NTU ±8% of Standard Value, 41-100 NTU ± 6.5% of Standard Value, >100 NTU ±5% of Standard Value

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Site: JED SWMF

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173AL

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME10404

Date: 11-15-17 Time: 1745

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.00	0	0.2	Y	I	JT
C4751994	6/2018	pH = 7.00	7.00	0	0.2	Y	I	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	10.02	0.2	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1413	0	5%	Y	I	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	229.1	0.5	NA	Y	C	JT
	Per Table →	D.O. = 8.20 mg/L @ 25.4 °C	8.23	0.03	0.2 mg/l	Y	I	JT

Date: 11-16-17 Time: 1900

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.03	0.03	0.2	Y	C	JT
C4751994	6/2018	pH = 7.00	7.02	0.02	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	10.27	2.7	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	84	0	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1406	0.5	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	228	0	NA	Y	C	JT
	Per Table →	D.O. = 8.66 mg/L @ 22.5 °C	8.71	0.05	0.2 mg/l	Y	I	JT

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 5 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L; Turbidity 0.1-10 NTU ± 10% of Standard Value, 11-40 NTU ±8% of Standard Value, 41-100 NTU ± 6.5% of Standard Value, >100 NTU ±5% of Standard Value

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Site: JED SWMF

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173AL

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME10404

Date: 11-19-17 Time: 1815

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.01	0.01	0.2	Y	C	JT
C4751994	6/2018	pH = 7.00	7.05	0.05	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	10.17	1.7	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	85	1.2	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1412	0.07	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	228	0	NA	Y	C	JT
	Per Table →	D.O. = 8.57 mg/L @ 23.4°C	8.52	0.01	0.2 mg/l	Y	I	JT

Date: 11-20-17 Time: 1910

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.10	0.10	0.2	Y	C	JT
C4751994	6/2018	pH = 7.00	7.10	0.10	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	9.89	1.1	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1403	0.7	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	229	0.4	NA	Y	C	JT
	Per Table →	D.O. = 8.56 mg/L @ 23.1°C	8.62	0.06	0.2 mg/l	Y	I	JT

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 5 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L; Turbidity 0.1-10 NTU ± 10% of Standard Value, 11-40 NTU ±8% of Standard Value, 41-100 NTU ± 6.5% of Standard Value, >100 NTU ±5% of Standard Value

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Site: JED SWMF

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173AL

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME10404

Date: 11-26-17 Time: 1630

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.04	0.04	0.2	Y	C	JT
C4751994	6/2018	pH = 7.00	7.06	0.06	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	9.85	1.5	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1415	0.14	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	228	0	NA	Y	C	JT
	Per Table →	D.O. = 8.40 mg/L @ 24.1 °C	8.46	0.06	0.2 mg/l	Y	I	JT

Date: 11-27-17 Time: 1845

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.03	0.03	0.2	Y	C	JT
C4751994	6/2018	pH = 7.00	7.04	0.04	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	10.16	1.6	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	84	0	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1403	0.71	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	229	0.4	NA	Y	C	JT
	Per Table →	D.O. = 8.28 mg/L @ 24.9 °C	8.34	0.06	0.2 mg/l	Y	I	JT

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 5 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L; Turbidity 0.1-10 NTU ± 10% of Standard Value, 11-40 NTU ±8% of Standard Value, 41-100 NTU ± 6.5% of Standard Value, >100 NTU ±5% of Standard Value

Note (3): Initial, Continual, Final

Field Instrument Calibration Record

Site: JED SWMF

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173AL

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME10404

Date: 11-28-17 Time: 1745

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00	4.12	0.12	0.2	Y	C	JT
C4751994	6/2018	pH = 7.00	7.09	0.04	0.2	Y	C	JT
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU	10.04	0.4	10%	Y	C	JT
VZ1	1/2019	Conductivity = 84 µS/cm	85	1.2	5%	Y	C	JT
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm	1416	0.2	5%	Y	C	JT
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV	228	0	NA	Y	C	JT
	Per Table →	D.O. = 8.60 mg/L @ 22.9 °C	8.66	0.06	0.2 mg/l	Y	I	JT

Date: Time:

Calibration Standard			Instrument Response	Percent Deviation[1] or Difference	Allowable Deviation[2]	Calibrated? Yes or No	Type of Calibration[3]	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C693065	4/2018	pH = 4.00			0.2			
C4751994	6/2018	pH = 7.00			0.2			
C692858	6/2018	pH = 10.00			0.2			
C693065	4/2018	Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
		Turbidity = 10 NTU			10%			
VZ1	1/2019	Conductivity = 84 µS/cm			5%			
		Conductivity = 447 µS/cm			5%			
C687509	6/ 2018	Conductivity = 1,413 µS/cm			5%			
C693065	4/2018	Conductivity = 4,490 µS/cm			5%			
C691584	6/2018	ORP 228mV			NA			
	Per Table →	D.O. = mg/L @ °C			0.2 mg/l			

Note (1): Percent Deviation = (Standard Value – Instrument Response) ÷ Standard Value x 100

Note (2): Allowable Deviation: pH ± 0.2 of Standard Value; Conductivity ± 5 % of Standard Value; Salinity ± 3 % of Standard Value; DO ± 0.2 mg/L; Turbidity 0.1-10 NTU ± 10% of Standard Value, 11-40 NTU ±8% of Standard Value, 41-100 NTU ± 6.5% of Standard Value, >100 NTU ±5% of Standard Value

Note (3): Initial, Continual, Final

APPENDIX D
Chain-of-Custody Forms

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Alta
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.
☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 3230
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.

J1711593

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-380-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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: St. Cloud, FL
FDEP Facility No: 89544
Project Name and Address:

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	App I VOAs+EDB/DBCP (BOTTLE SIZE & TYPE: 40 mL Vials) HCL	App I Metals+Fe,Hg,Na (500 mL Plastic) HNO3	Cl/NO3/TDS (500 mL Plastic) Ice	NH3 (250 mL Plastic) H2SO4	LABORATORY I.D. NUMBER
17318-MW-27A		G	11-14-17	0705	GW	6		3	1	1	1	001
17318-MW-27B		G	11-14-17	0635	GW	6		3	1	1	1	002
17318-MW-28A		G	11-14-17	0825	GW	6		3	1	1	1	003
17318-MW-28B		G	11-14-17	0755	GW	6		3	1	1	1	004
17318-MW-24A		G	11-14-17	1005	GW	6		3	1	1	1	005
17318-MW-24B		G	11-14-17	0935	GW	6		3	1	1	1	006
17318-TripBlank-1		G	11-14-17	0000	DI H_2O	3		3				007

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) 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Joe Terry	11-14-17	1600	FedEx		
2	FedEx	11-15-17	8:45		11-15-17	8:45
3						
4						

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

Thursday, December 14, 2017 1:00:23 PM
Page 53 of 55

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 101
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☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 •
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, F
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 5

J1711593

7.1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EAS)
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: St. Cloud, FL
FDEP Facility No: 89544
Project Name and Address:

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							
							PRESERVATION	HCL	HNO3	Ice	H2SO4							
17318-MW-22AR		G	11.14.17	1125	GW	6		3	1	1	1							008
17318-MW-22BR		G	11.14.17	1100	GW	6		3	1	1	1							009
17318-MW-23A		G	11.14.17	1305	GW	6		3	1	1	1							010
17318-MW-23B		G	11.14.17	1235	GW	6		3	1	1	1							011
17318-MW-1A		G	11.14.17	1430	GW	6		3	1	1	1							012
17318-MW-1B		G	11.14.17	1400	GW	6		3	1	1	1							013
17318-TripBlank-2		G	11.14.17	0000	DI H_2O	2		2										014
17318-Dup-2		G	11.14.17	1200	GW	6		3	1	1	1							015

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	Joe Terry	11.14.17	1600	Fedex		
2	Fedex	11-15-17	8:45	Bob Arnold	11-15-17	8:45
3						
4						

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

Thursday, December 14, 2017 1:00:23 PM

Advanced Environmental Laboratories, Inc.

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☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.

J1711729

597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (ETPS)
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	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
	ANALYSIS REQUIRED							App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
17320-MW-29A		Grab	11/16/17	0645	GW	6		3	1	1	1							001
17320-MW-29B		Grab	11/16/17	0620	GW	6		3	1	1	1							002
17320-MW-17AR		Grab	11/16/17	0810	GW	6		3	1	1	1							003
17320-MW-17BR		Grab	11/16/17	0740	GW	6		3	1	1	1							004
17320-MW-31A		Grab	11/16/17	1105	GW	6		3	1	1	1							005
17320-MW-31B		Grab	11/16/17	1015	GW	6		3	1	1	1							006
17320-Equipment Blank		Grab	11/16/17	1040	DI H_2O	6		3	1	1	1							007
17320-Trip Blank-3		Grab	11/16/17	0000	DI H_2O	3		3										008

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 = (H_2SO_4) N = (HNO_3) 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	11/16/17	1700	Fedex		
2	Fedex	11-17-17	0845		11-17-17	0845
3						
4						

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

Monday, December 04, 2017 1:01:05 PM
Page 49 of 51

J1711729

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
☒ 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:	813-350-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	
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 Orn. 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							
17320-MW-25A		Grab	11.16.17	1215	GW	6			3	1	1	1							009
17320-MW-25B		Grab	11.16.17	1250	GW	6			3	1	1	1							010
17320-CW-1A		Grab	11.16.17	1355	GW	6			3	1	1	1							011
17320-CW-2A		Grab	11.16.17	1450	GW	6			3	1	1	1							012
17320-CW-3A		Grab	11.16.17	1545	GW	6			3	1	1	1							013
17320-Trip Blank-4																			014

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	Courtney	11.16.17	1700	Fedex		
2	Fedex	11-17	0845	Sample	11-17	0845
3						
4						

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

Monday, December 04, 2017 1:01:05 PM
Page 50 of 51

Advanced Environmental Laboratories, Inc.

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, F
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 •
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, F
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • &

J1711733

7.1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-389-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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	1L Plastic	500 mL Plastic	1L Amber	40 mL Vials	100 ml Cup			LABORATORY I.D. NUMBER
							ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Hardn	BOD/NO3/TDS	TSS	COD/NH3 Unionized/TN/TP	Chlorophyll A	TOC	Fecal Coliform			
							PRESER-VATION	HCL	HNO3	Ice	Ice	H2SO4	Ice	HCL	Na Thio			
17321-SW-3	water temp at sample time: 17.63°C	G	11-17-17	0900	SW	11		X	X	X	X	X	X	X	X			001
17321-SW-4	water temp: 16.64°C	G	11-17-17	0840	SW	11		X	X	X	X	X	X	X	X			002
17321-Trip Blank-5		G	11-17-17	0000	DI H2O	2		X										003

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) 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11-17-17	1100	[signature]	11/17/17	1130
2	[signature]	11/17/17	1225	[signature]	11-17-17	1225
3						
4						

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

Monday, December 04, 2017 10:51:08 AM

Advanced Environmental Laboratories, Inc.

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 95
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 81

J1711803

1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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 SWSF 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							
							PRESERVATION	HCL	HNO3	Ice	H2SO4							
17324-MW-16AR		G	11.20.17	0640	GW	6		3	1	1	1							001
17324-MW-16BR		G	11.20.17	0615	GW	6		3	1	1	1							002
17324-MW-13A		G	11.20.17	0815	GW	6		3	1	1	1							003
17324-MW-13B		G	11.20.17	0750	GW	6		3	1	1	1							004
17324-MW-12A		G	11.20.17	0950	GW	6		3	1	1	1							005
17324-MW-12B		G	11.20.17	0925	GW	6		3	1	1	1							006
17324-Dup-2		G	11.20.17	1200	GW	6		3	1	1	1							007
17324-Trip Blank-6		G	11.20.17	0000	DI H_2O	3		3										008

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) ID: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Joe Terry	11-20-17	1600	FedEx		
2	FedEx	11-21-17	0915	Byata	11-21-17	0915
3						
4						

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

Wednesday, December 06, 2017 10:04:35 AM

Advanced Environmental Laboratories, Inc.

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☑ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 3
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 95
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.

J1711803

1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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	PRESERVATION
17324-MW-10A		Grab	11.20.17	1255	GW	6	
17324-MW-10B		Grab	11.20.17	1215	GW	6	
17324-MW-11A		Grab	11.20.17	1120	GW	6	
17324-MW-11B		Grab	11.20.17	1050	GW	6	
17324-Trip Blank-7		Grab	11.20.17	0000	DI H_2O	3	

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							
PRESERVATION	HCL	HNO3	Ice	H2SO4							
	3	1	1	1							812
	3	1	1	1							813
	3	1	1	1							814
	3	1	1	1							815
	3										816

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		11.20.17	1600	FedEx		
2	FedEx	11.21.17	0815		11.21.17	0815
3						
4						

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

Wednesday, December 06, 2017 10:04:35 AM
Page 48 of 49

Advanced Environmental Laboratories, Inc.

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, I
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 •
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee,
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4527

J1711863

137.1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-399-1076
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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 SW DF
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							
17325-MW-7A		G	11.21.17	0935	GW	6		3	1	1	1							001
17325-MW-7B		G	11.21.17	0905	GW	6		3	1	1	1							002
17325-MW-8A		G	11.21.17	0815	GW	6		3	1	1	1							003
17325-MW-8B		G	11.21.17	0745	GW	6		3	1	1	1							004
17325-MW-9A		G	11.21.17	0655	GW	6		3	1	1	1							005
17325-MW-9B		G	11.21.17	0625	GW	6		3	1	1	1							006
17325-Trip Blank-8		G	11.21.17	0000	DI H2O	3		3										007

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	Joe Terry	11.21.17	1145	Fedex		
2	Fedex	11-22	930		11.22	930
3						
4						

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

Wednesday, December 06, 2017 10:05:49 AM
Page 29 of 30

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Alta
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☒ 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 • 813.630.

J1711989

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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	PRESERVATION
17331-MW-5A		G	11.27.17	1540	GW	6	
17331-MW-5B		G	11.27.17	1500	GW	6	
17331-MW-6A		G	11.27.17	1405	GW	6	
17331-MW-6B		G	11.27.17	1335	GW	6	
17331-Trip Blk-9		G	11.27.17	0000	DI H2O	1	

ANALYSIS REQUIRED

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								
PRESERVATION	HCL	HNO3	Ice	H2SO4								
	3	1	1	1								001
	3	1	1	1								002
	3	1	1	1								003
	3	1	1	1								004
	1											

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	Joe Terry	11.27.17	1700	Fedex		
2	Fedex	11-28	0930	Supvr	11-28	0930
3						
4						

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

Thursday, December 07, 2017 11:02:12 AM

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 • 954.8
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.63

J1712048

7

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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
15010 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							
17332-MW-2A		G	11-28-17	1140	GW	6			3	1	1	1							001
17332-MW-2B		G	11-28-17	1105	GW	6			3	1	1	1							002
17332-MW-3A		G	11-28-17	0955	GW	6			3	1	1	1							003
17332-MW-3B		G	11-28-17	0920	GW	6			3	1	1	1							004
17332-MW-4A		G	11-28-17	0810	GW	6			3	1	1	1							005
17332-MW-4B		G	11-28-17	0740	GW	6			3	1	1	1							006
17332-Trip Blank-10		G	11-28-17	0000	DI H2O	2			2										007

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		11-28-17	1300	Fedex		
2	Fedex	11-29-17	9:15		11-29-17	9:15
3						
4						

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

Thursday, December 07, 2017 11:02:34 AM
Page 29 of 30

APPENDIX E
Analytical Laboratory Reports

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

December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1711593 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, November 15, 2017. 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: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1711593001	17318-MW-27A	Water	11/14/2017 07:05	11/15/2017 08:45
J1711593002	17318-MW-27B	Water	11/14/2017 06:35	11/15/2017 08:45
J1711593003	17318-MW-28A	Water	11/14/2017 08:25	11/15/2017 08:45
J1711593004	17318-MW-28B	Water	11/14/2017 07:55	11/15/2017 08:45
J1711593005	17318-MW-24A	Water	11/14/2017 10:05	11/15/2017 08:45
J1711593006	17318-MW-24B	Water	11/14/2017 09:35	11/15/2017 08:45
J1711593007	17318-TripBlank-1	Water	11/14/2017 00:00	11/15/2017 08:45
J1711593008	17318-MW-22AR	Water	11/14/2017 11:25	11/15/2017 08:45
J1711593009	17318-MW-22BR	Water	11/14/2017 11:00	11/15/2017 08:45
J1711593010	17318-MW-23A	Water	11/14/2017 13:05	11/15/2017 08:45
J1711593011	17318-MW-23B	Water	11/14/2017 12:35	11/15/2017 08:45
J1711593012	17318-MW-1A	Water	11/14/2017 14:30	11/15/2017 08:45
J1711593013	17318-MW-1B	Water	11/14/2017 14:00	11/15/2017 08:45
J1711593014	17318-TripBlank-2	Water	11/14/2017 00:00	11/15/2017 08:45
J1711593015	17318-DUP-1	Water	11/14/2017 12:00	11/15/2017 08:45

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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593001** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-27A** Date Collected: 11/14/17 07:05

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**	10	9.0	11/29/2017 13:41	J
Barium	**12**		**ug/L**	**1**	2.0	0.83	11/29/2017 13:41	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 13:41	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 13:41	J
Chromium	**1.9**	**I**	**ug/L**	**1**	3.0	1.6	11/29/2017 13:41	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 13:41	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 13:41	J
Iron	**680**		**ug/L**	**1**	200	100	11/29/2017 13:41	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 13:41	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 13:41	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 13:41	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 13:41	J
Sodium	**4.7**		**mg/L**	**1**	0.70	0.34	11/29/2017 13:41	J
Vanadium	**3.1**		**ug/L**	**1**	1.0	0.55	11/29/2017 13:41	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 13:41	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.084**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 16:55	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 16:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.014**	**I**	**ug/L**	**1**	0.10	0.011	11/21/2017 12:47	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 14:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 14:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 14:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 14:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/16/2017 14:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 14:53	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 14:53	J

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Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593001** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-27A** Date Collected: 11/14/17 07:05

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	11/16/2017 14:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 14:53	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 14:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 14:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/16/2017 14:53	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/16/2017 14:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/16/2017 14:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/16/2017 14:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/16/2017 14:53	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 14:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/16/2017 14:53	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/16/2017 14:53	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/16/2017 14:53	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 14:53	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 14:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 14:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 14:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 14:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 14:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 14:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 14:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 14:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 14:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 14:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/16/2017 14:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 14:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 14:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 14:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/16/2017 14:53	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/16/2017 14:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/16/2017 14:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 14:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/16/2017 14:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 14:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 14:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 14:53	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 14:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/16/2017 14:53	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/16/2017 14:53	
Toluene-d8 (S)	**102**		**%**	**1**	77-119		11/16/2017 14:53	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593001** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-27A** Date Collected: 11/14/17 07:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		11/16/2017 14:53	
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	11/16/2017 14:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/16/2017 14:53	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/16/2017 14:53	
Toluene-d8 (S)	**106**		**%**	**1**	80-121		11/16/2017 14:53	
Bromofluorobenzene (S)	**112**		**%**	**1**	80-129		11/16/2017 14:53	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**5.6**		**mg/L**	**1**	5.0	0.50	11/15/2017 16:04	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/15/2017 16:04	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.73**		**mg/L**	**1**	0.010	0.0080	11/21/2017 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**60**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593002** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-27B** Date Collected: 11/14/17 06:35

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**	10	9.0	11/29/2017 13:44	J
Barium	**19**		**ug/L**	**1**	2.0	0.83	11/29/2017 13:44	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 13:44	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 13:44	J
Chromium	**1.9**	**I**	**ug/L**	**1**	3.0	1.6	11/29/2017 13:44	J

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Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593002** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-27B** Date Collected: 11/14/17 06:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 13:44	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 13:44	J
Iron	**520**		**ug/L**	**1**	200	100	11/29/2017 13:44	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 13:44	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 13:44	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 13:44	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 13:44	J
Sodium	**21**		**mg/L**	**1**	0.70	0.34	11/29/2017 13:44	J
Vanadium	**1.9**		**ug/L**	**1**	1.0	0.55	11/29/2017 13:44	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 13:44	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/20/2017 16:59	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 16:59	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	11/21/2017 13:08	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 15:22	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 15:22	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 15:22	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 15:22	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/16/2017 15:22	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 15:22	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 15:22	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 15:22	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 15:22	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 15:22	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 15:22	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/16/2017 15:22	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/16/2017 15:22	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/16/2017 15:22	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/16/2017 15:22	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/16/2017 15:22	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593002** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-27B** Date Collected: 11/14/17 06:35

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	11/16/2017 15:22	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/16/2017 15:22	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/16/2017 15:22	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/16/2017 15:22	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 15:22	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 15:22	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 15:22	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 15:22	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 15:22	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 15:22	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 15:22	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 15:22	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 15:22	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 15:22	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 15:22	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/16/2017 15:22	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 15:22	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 15:22	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 15:22	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/16/2017 15:22	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/16/2017 15:22	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/16/2017 15:22	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 15:22	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/16/2017 15:22	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 15:22	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 15:22	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 15:22	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 15:22	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/16/2017 15:22	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/16/2017 15:22	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/16/2017 15:22	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/16/2017 15:22	
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	11/16/2017 15:22	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/16/2017 15:22	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/16/2017 15:22	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/16/2017 15:22	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/16/2017 15:22	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593002** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-27B** Date Collected: 11/14/17 06:35

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	**34**		**mg/L**	**1**	5.0	0.50	11/15/2017 16:25	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/15/2017 16:25	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.05**		**mg/L**	**1**	0.010	0.0080	11/21/2017 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**77**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593003** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-28A** Date Collected: 11/14/17 08:25

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**	10	9.0	11/29/2017 13:47	J
Barium	**38**		**ug/L**	**1**	2.0	0.83	11/29/2017 13:47	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 13:47	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 13:47	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/29/2017 13:47	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 13:47	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 13:47	J
Iron	**2600**		**ug/L**	**1**	200	100	11/29/2017 13:47	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 13:47	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 13:47	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 13:47	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 13:47	J
Sodium	**17**		**mg/L**	**1**	0.70	0.34	11/29/2017 13:47	J
Vanadium	**0.55**	**U**	**ug/L**	**1**	1.0	0.55	11/29/2017 13:47	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 13:47	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593003** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-28A** Date Collected: 11/14/17 08:25

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	**0.048**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:03	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:03	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	11/21/2017 13:11	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 16:06	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 16:06	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:06	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 16:06	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/16/2017 16:06	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:06	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 16:06	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:06	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 16:06	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:06	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 16:06	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/16/2017 16:06	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/16/2017 16:06	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/16/2017 16:06	J
Acetone	**5.3**		**ug/L**	**1**	5.0	2.1	11/16/2017 16:06	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/16/2017 16:06	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 16:06	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/16/2017 16:06	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/16/2017 16:06	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/16/2017 16:06	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 16:06	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 16:06	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 16:06	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 16:06	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 16:06	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:06	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 16:06	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593003** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-28A** Date Collected: 11/14/17 08:25

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	11/16/2017 16:06	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 16:06	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 16:06	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 16:06	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/16/2017 16:06	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 16:06	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 16:06	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 16:06	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/16/2017 16:06	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/16/2017 16:06	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/16/2017 16:06	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:06	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/16/2017 16:06	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 16:06	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 16:06	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:06	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:06	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/16/2017 16:06	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/16/2017 16:06	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/16/2017 16:06	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/16/2017 16:06	
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	11/16/2017 16:06	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/16/2017 16:06	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/16/2017 16:06	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/16/2017 16:06	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/16/2017 16:06	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**22**		**mg/L**	**1**	5.0	0.50	11/15/2017 16:47	J
Nitrate	**0.89**		**mg/L**	**1**	0.50	0.050	11/15/2017 16:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.9**		**mg/L**	**5**	0.050	0.040	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593003** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-28A** Date Collected: 11/14/17 08:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**140**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593004** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-28B** Date Collected: 11/14/17 07:55

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**	10	9.0	11/29/2017 13:50	J
Barium	**36**		**ug/L**	**1**	2.0	0.83	11/29/2017 13:50	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 13:50	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 13:50	J
Chromium	**1.8**	**I**	**ug/L**	**1**	3.0	1.6	11/29/2017 13:50	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 13:50	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 13:50	J
Iron	**1200**		**ug/L**	**1**	200	100	11/29/2017 13:50	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 13:50	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 13:50	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 13:50	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 13:50	J
Sodium	**14**		**mg/L**	**1**	0.70	0.34	11/29/2017 13:50	J
Vanadium	**2.4**		**ug/L**	**1**	1.0	0.55	11/29/2017 13:50	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 13:50	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.058**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:14	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:14	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	11/21/2017 13:20	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593004** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-28B** Date Collected: 11/14/17 07:55

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 16:32	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 16:32	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:32	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 16:32	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/16/2017 16:32	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:32	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/16/2017 16:32	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:32	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 16:32	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:32	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/16/2017 16:32	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/16/2017 16:32	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/16/2017 16:32	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/16/2017 16:32	J
Acetone	**3.8**	**I**	**ug/L**	**1**	5.0	2.1	11/16/2017 16:32	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/16/2017 16:32	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 16:32	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/16/2017 16:32	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/16/2017 16:32	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/16/2017 16:32	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 16:32	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 16:32	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 16:32	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 16:32	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 16:32	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:32	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/16/2017 16:32	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/16/2017 16:32	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/16/2017 16:32	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 16:32	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 16:32	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/16/2017 16:32	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 16:32	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/16/2017 16:32	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/16/2017 16:32	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/16/2017 16:32	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593004** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-28B** Date Collected: 11/14/17 07:55

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	11/16/2017 16:32	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/16/2017 16:32	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:32	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/16/2017 16:32	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/16/2017 16:32	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/16/2017 16:32	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/16/2017 16:32	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/16/2017 16:32	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/16/2017 16:32	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/16/2017 16:32	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/16/2017 16:32	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/16/2017 16:32	
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	11/16/2017 16:32	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/16/2017 16:32	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/16/2017 16:32	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/16/2017 16:32	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/16/2017 16:32	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**30**		**mg/L**	**1**	5.0	0.50	11/15/2017 17:08	J
Nitrate	**0.080**	**I**	**mg/L**	**1**	0.50	0.050	11/15/2017 17:08	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.11**		**mg/L**	**1**	0.010	0.0080	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**89**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593005** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-24A** Date Collected: 11/14/17 10:05

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**	10	9.0	11/29/2017 13:55	J
Barium	**8.2**		**ug/L**	**1**	2.0	0.83	11/29/2017 13:55	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 13:55	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 13:55	J
Chromium	**1.6**	**I**	**ug/L**	**1**	3.0	1.6	11/29/2017 13:55	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 13:55	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 13:55	J
Iron	**290**		**ug/L**	**1**	200	100	11/29/2017 13:55	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 13:55	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 13:55	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 13:55	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 13:55	J
Sodium	**10**		**mg/L**	**1**	0.70	0.34	11/29/2017 13:55	J
Vanadium	**0.92**	**I**	**ug/L**	**1**	1.0	0.55	11/29/2017 13:55	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 13:55	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:18	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:18	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	11/21/2017 13:24	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 20:11	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 20:11	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:11	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 20:11	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 20:11	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:11	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 20:11	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593005** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-24A** Date Collected: 11/14/17 10:05

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	11/17/2017 20:11	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 20:11	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:11	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 20:11	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 20:11	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 20:11	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 20:11	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 20:11	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 20:11	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 20:11	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 20:11	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 20:11	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 20:11	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 20:11	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 20:11	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 20:11	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 20:11	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 20:11	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:11	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 20:11	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 20:11	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 20:11	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 20:11	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 20:11	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 20:11	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 20:11	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 20:11	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 20:11	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 20:11	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/17/2017 20:11	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 20:11	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:11	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 20:11	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 20:11	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 20:11	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:11	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:11	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 20:11	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/17/2017 20:11	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/17/2017 20:11	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593005** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-24A** Date Collected: 11/14/17 10:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		11/17/2017 20:11	
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	11/17/2017 20:11	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 20:11	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	77-125		11/17/2017 20:11	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/17/2017 20:11	
Bromofluorobenzene (S)	**113**		**%**	**1**	80-129		11/17/2017 20:11	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	11/15/2017 17:29	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/15/2017 17:29	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.07**		**mg/L**	**1**	0.010	0.0080	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**62**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593006** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-24B** Date Collected: 11/14/17 09:35

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**	10	9.0	11/29/2017 13:58	J
Barium	**7.1**		**ug/L**	**1**	2.0	0.83	11/29/2017 13:58	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 13:58	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 13:58	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/29/2017 13:58	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593006** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-24B** Date Collected: 11/14/17 09:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 13:58	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 13:58	J
Iron	**440**		**ug/L**	**1**	200	100	11/29/2017 13:58	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 13:58	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 13:58	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 13:58	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 13:58	J
Sodium	**4.3**		**mg/L**	**1**	0.70	0.34	11/29/2017 13:58	J
Vanadium	**0.86**	**I**	**ug/L**	**1**	1.0	0.55	11/29/2017 13:58	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 13:58	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:22	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:22	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	11/21/2017 13:27	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 20:37	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 20:37	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:37	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 20:37	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 20:37	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:37	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 20:37	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:37	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 20:37	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:37	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 20:37	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 20:37	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 20:37	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 20:37	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 20:37	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 20:37	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593006** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-24B** Date Collected: 11/14/17 09:35

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	11/17/2017 20:37	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 20:37	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 20:37	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 20:37	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 20:37	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 20:37	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 20:37	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 20:37	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 20:37	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:37	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 20:37	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 20:37	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 20:37	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 20:37	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 20:37	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 20:37	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 20:37	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 20:37	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 20:37	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 20:37	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/17/2017 20:37	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 20:37	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:37	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 20:37	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 20:37	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 20:37	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 20:37	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 20:37	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 20:37	J
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	70-128		11/17/2017 20:37	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/17/2017 20:37	
Bromofluorobenzene (S)	**117**		**%**	**1**	86-123		11/17/2017 20:37	
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	11/17/2017 20:37	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 20:37	J
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	77-125		11/17/2017 20:37	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/17/2017 20:37	
Bromofluorobenzene (S)	**115**		**%**	**1**	80-129		11/17/2017 20:37	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593006** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-24B** Date Collected: 11/14/17 09:35

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	**7.1**		**mg/L**	**1**	5.0	0.50	11/15/2017 18:32	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/15/2017 18:32	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.08**		**mg/L**	**1**	0.010	0.0080	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**23**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593007** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-TripBlank-1** Date Collected: 11/14/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 21:03	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 21:03	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:03	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 21:03	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 21:03	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:03	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 21:03	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:03	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:03	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:03	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 21:03	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 21:03	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 21:03	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 21:03	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 21:03	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593007** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-TripBlank-1** Date Collected: 11/14/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 21:03	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:03	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 21:03	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 21:03	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 21:03	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:03	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:03	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 21:03	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:03	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 21:03	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:03	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:03	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 21:03	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 21:03	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:03	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:03	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 21:03	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:03	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 21:03	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:03	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 21:03	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/17/2017 21:03	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 21:03	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:03	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 21:03	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:03	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:03	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:03	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:03	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 21:03	J
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	70-128		11/17/2017 21:03	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/17/2017 21:03	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/17/2017 21:03	
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	11/17/2017 21:03	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 21:03	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/17/2017 21:03	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/17/2017 21:03	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593007** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-TripBlank-1** Date Collected: 11/14/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/17/2017 21:03	

Lab ID: **J1711593008** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-22AR** Date Collected: 11/14/17 11:25

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**	10	9.0	11/29/2017 14:04	J
Barium	**36**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:04	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:04	J
Cadmium	**0.45**	**I**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:04	J
Chromium	**3.4**		**ug/L**	**1**	3.0	1.6	11/29/2017 14:04	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 14:04	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:04	J
Iron	**100**	**U**	**ug/L**	**1**	200	100	11/29/2017 14:04	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:04	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:04	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:04	J
Sodium	**13**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:04	J
Vanadium	**4.9**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:04	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:04	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	0.046	11/20/2017 17:26	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:26	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	11/21/2017 13:39	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593008** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-22AR** Date Collected: 11/14/17 11:25

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 21:29	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 21:29	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:29	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 21:29	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 21:29	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:29	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 21:29	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:29	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:29	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:29	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 21:29	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 21:29	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 21:29	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 21:29	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 21:29	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 21:29	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:29	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 21:29	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 21:29	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 21:29	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:29	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:29	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 21:29	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:29	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 21:29	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:29	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:29	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 21:29	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 21:29	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:29	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:29	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 21:29	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:29	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 21:29	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:29	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 21:29	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593008** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-22AR** Date Collected: 11/14/17 11:25

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	11/17/2017 21:29	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 21:29	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:29	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 21:29	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:29	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:29	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:29	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:29	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 21:29	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/17/2017 21:29	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/17/2017 21:29	
Bromofluorobenzene (S)	**116**		**%**	**1**	86-123		11/17/2017 21:29	
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	11/17/2017 21:29	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 21:29	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/17/2017 21:29	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/17/2017 21:29	
Bromofluorobenzene (S)	**114**		**%**	**1**	80-129		11/17/2017 21:29	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**14**		**mg/L**	**2**	10	1.0	11/15/2017 19:14	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/15/2017 19:14	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**7.0**		**mg/L**	**10**	0.10	0.080	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**600**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593009** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-22BR** Date Collected: 11/14/17 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**	10	9.0	11/29/2017 14:23	J
Barium	**78**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:23	J
Beryllium	**0.41**	**I**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:23	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:23	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/29/2017 14:23	J
Cobalt	**4.0**		**ug/L**	**1**	4.0	1.9	11/29/2017 14:23	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:23	J
Iron	**13000**		**ug/L**	**1**	200	100	11/29/2017 14:23	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:23	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:23	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:23	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:23	J
Sodium	**26**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:23	J
Vanadium	**1.9**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:23	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.049**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:30	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:30	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	11/21/2017 13:33	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 21:55	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 21:55	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:55	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 21:55	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 21:55	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:55	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 21:55	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593009** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-22BR** Date Collected: 11/14/17 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	11/17/2017 21:55	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:55	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:55	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 21:55	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 21:55	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 21:55	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 21:55	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 21:55	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 21:55	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:55	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 21:55	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 21:55	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 21:55	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:55	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:55	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 21:55	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:55	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 21:55	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:55	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 21:55	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 21:55	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 21:55	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:55	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:55	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 21:55	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:55	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 21:55	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 21:55	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 21:55	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/17/2017 21:55	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 21:55	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:55	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 21:55	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 21:55	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 21:55	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 21:55	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 21:55	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 21:55	J
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	70-128		11/17/2017 21:55	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/17/2017 21:55	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593009** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-22BR** Date Collected: 11/14/17 11:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		11/17/2017 21:55	
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	11/17/2017 21:55	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 21:55	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/17/2017 21:55	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/17/2017 21:55	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/17/2017 21:55	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**27**		**mg/L**	**1**	5.0	0.50	11/15/2017 19:35	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/15/2017 19:35	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.32**		**mg/L**	**1**	0.010	0.0080	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**240**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593010** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-23A** Date Collected: 11/14/17 13:05

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**	10	9.0	11/29/2017 14:26	J
Barium	**21**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:26	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:26	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:26	J
Chromium	**4.5**		**ug/L**	**1**	3.0	1.6	11/29/2017 14:26	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593010** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-23A** Date Collected: 11/14/17 13:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 14:26	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:26	J
Iron	**120**	**I**	**ug/L**	**1**	200	100	11/29/2017 14:26	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:26	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:26	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:26	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:26	J
Sodium	**45**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:26	J
Vanadium	**5.2**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:26	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:26	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	0.046	11/20/2017 17:34	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:34	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.017**	**I**	**ug/L**	**1**	0.10	0.011	11/21/2017 13:36	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 22:21	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 22:21	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:21	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 22:21	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 22:21	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:21	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 22:21	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:21	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 22:21	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:21	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 22:21	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 22:21	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 22:21	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 22:21	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 22:21	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 22:21	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593010** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-23A** Date Collected: 11/14/17 13:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.93**	**I**	**ug/L**	**1**	1.0	0.16	11/17/2017 22:21	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 22:21	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 22:21	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 22:21	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 22:21	J
Carbon Disulfide	**0.83**	**I**	**ug/L**	**1**	1.0	0.21	11/17/2017 22:21	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 22:21	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 22:21	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 22:21	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:21	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 22:21	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 22:21	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 22:21	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 22:21	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 22:21	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 22:21	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 22:21	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 22:21	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 22:21	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 22:21	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/17/2017 22:21	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 22:21	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:21	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 22:21	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 22:21	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 22:21	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:21	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:21	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 22:21	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/17/2017 22:21	
Toluene-d8 (S)	**111**		**%**	**1**	77-119		11/17/2017 22:21	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		11/17/2017 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	11/17/2017 22:21	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 22:21	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/17/2017 22:21	
Toluene-d8 (S)	**114**		**%**	**1**	80-121		11/17/2017 22:21	
Bromofluorobenzene (S)	**112**		**%**	**1**	80-129		11/17/2017 22:21	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593010** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-23A** Date Collected: 11/14/17 13:05

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	**72**		**mg/L**	**2**	10	1.0	11/15/2017 19:56	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/15/2017 19:56	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.5**		**mg/L**	**5**	0.050	0.040	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**400**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593011** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-23B** Date Collected: 11/14/17 12:35

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**	10	9.0	11/29/2017 14:29	J
Barium	**130**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:29	J
Beryllium	**0.55**	**I**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:29	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:29	J
Chromium	**2.0**	**I**	**ug/L**	**1**	3.0	1.6	11/29/2017 14:29	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 14:29	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:29	J
Iron	**2100**		**ug/L**	**1**	200	100	11/29/2017 14:29	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:29	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:29	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:29	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:29	J
Sodium	**150**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:29	J
Vanadium	**11**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:29	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:29	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593011** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-23B** Date Collected: 11/14/17 12:35

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	**0.083**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:38	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:38	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	11/21/2017 13:42	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 22:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 22:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 22:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 22:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:47	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 22:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 22:47	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 22:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 22:47	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 22:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 22:47	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/17/2017 22:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 22:47	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 22:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 22:47	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 22:47	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 22:47	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 22:47	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 22:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 22:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 22:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 22:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 22:47	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593011** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-23B** Date Collected: 11/14/17 12:35

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	11/17/2017 22:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 22:47	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 22:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 22:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 22:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 22:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 22:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 22:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 22:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/17/2017 22:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 22:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:47	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 22:47	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 22:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 22:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 22:47	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 22:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 22:47	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/17/2017 22:47	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/17/2017 22:47	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		11/17/2017 22:47	
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	11/17/2017 22:47	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 22:47	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/17/2017 22:47	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/17/2017 22:47	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/17/2017 22:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**390**		**mg/L**	**2**	10	1.0	11/15/2017 20:17	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/15/2017 20:17	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**11**		**mg/L**	**20**	0.20	0.16	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593011** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-23B** Date Collected: 11/14/17 12:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**810**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593012** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-1A** Date Collected: 11/14/17 14:30

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**	10	9.0	11/29/2017 14:32	J
Barium	**73**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:32	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:32	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:32	J
Chromium	**3.3**		**ug/L**	**1**	3.0	1.6	11/29/2017 14:32	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 14:32	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:32	J
Iron	**4700**		**ug/L**	**1**	200	100	11/29/2017 14:32	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:32	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:32	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:32	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:32	J
Sodium	**230**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:32	J
Vanadium	**7.6**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:32	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:32	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	0.046	11/20/2017 17:41	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:41	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	11/21/2017 13:45	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593012** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-1A** Date Collected: 11/14/17 14:30

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 23:13	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 23:13	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 23:13	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 23:13	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/17/2017 23:13	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 23:13	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/17/2017 23:13	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 23:13	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 23:13	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 23:13	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/17/2017 23:13	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/17/2017 23:13	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/17/2017 23:13	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/17/2017 23:13	J
Acetone	**8.9**		**ug/L**	**1**	5.0	2.1	11/17/2017 23:13	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/17/2017 23:13	J
Benzene	**0.45**	**I**	**ug/L**	**1**	1.0	0.16	11/17/2017 23:13	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/17/2017 23:13	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/17/2017 23:13	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/17/2017 23:13	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 23:13	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 23:13	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 23:13	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 23:13	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 23:13	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 23:13	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/17/2017 23:13	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/17/2017 23:13	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/17/2017 23:13	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 23:13	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 23:13	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/17/2017 23:13	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 23:13	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/17/2017 23:13	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/17/2017 23:13	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/17/2017 23:13	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593012** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-1A** Date Collected: 11/14/17 14:30

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	11/17/2017 23:13	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/17/2017 23:13	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 23:13	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/17/2017 23:13	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/17/2017 23:13	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/17/2017 23:13	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/17/2017 23:13	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/17/2017 23:13	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/17/2017 23:13	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/17/2017 23:13	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/17/2017 23:13	
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		11/17/2017 23:13	
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**	**ug/L**	**1**	0.20	0.11	11/17/2017 23:13	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/17/2017 23:13	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/17/2017 23:13	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/17/2017 23:13	
Bromofluorobenzene (S)	**112**		**%**	**1**	80-129		11/17/2017 23:13	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**430**		**mg/L**	**5**	25	2.5	11/15/2017 20:38	J
Nitrate	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/15/2017 20:38	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.3**		**mg/L**	**5**	0.050	0.040	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593013** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-1B** Date Collected: 11/14/17 14:00

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**	10	9.0	11/29/2017 14:34	J
Barium	**52**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:34	J
Beryllium	**0.62**	**I**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:34	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:34	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/29/2017 14:34	J
Cobalt	**10**		**ug/L**	**1**	4.0	1.9	11/29/2017 14:34	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:34	J
Iron	**29000**		**ug/L**	**1**	200	100	11/29/2017 14:34	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:34	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:34	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:34	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:34	J
Sodium	**120**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:34	J
Vanadium	**13**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:34	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:34	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.15**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:45	J
Thallium	**0.074**	**I**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:45	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	11/21/2017 13:48	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 07:26	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 07:26	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:26	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 07:26	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 07:26	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:26	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 07:26	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593013** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-MW-1B** Date Collected: 11/14/17 14:00

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	11/18/2017 07:26	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 07:26	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:26	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 07:26	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 07:26	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 07:26	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 07:26	J
Acetone	**8.7**		**ug/L**	**1**	5.0	2.1	11/18/2017 07:26	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 07:26	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 07:26	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 07:26	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 07:26	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 07:26	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 07:26	J
Carbon Disulfide	**0.55**	**I**	**ug/L**	**1**	1.0	0.21	11/18/2017 07:26	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 07:26	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 07:26	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 07:26	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:26	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 07:26	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 07:26	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 07:26	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 07:26	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 07:26	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 07:26	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 07:26	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 07:26	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 07:26	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 07:26	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 07:26	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 07:26	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:26	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 07:26	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 07:26	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 07:26	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:26	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:26	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 07:26	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/18/2017 07:26	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/18/2017 07:26	

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593013** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-MW-1B** Date Collected: 11/14/17 14:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		11/18/2017 07:26	
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	11/18/2017 07:26	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 07:26	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/18/2017 07:26	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/18/2017 07:26	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/18/2017 07:26	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**250**		**mg/L**	**5**	25	2.5	11/15/2017 20:59	J
Nitrate	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/15/2017 20:59	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.2**		**mg/L**	**5**	0.050	0.040	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1000**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

Lab ID: **J1711593014** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-TripBlank-2** Date Collected: 11/14/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 07:52	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 07:52	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:52	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 07:52	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 07:52	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593014** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-TripBlank-2** Date Collected: 11/14/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:52	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 07:52	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:52	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 07:52	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:52	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 07:52	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 07:52	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 07:52	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 07:52	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 07:52	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 07:52	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 07:52	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 07:52	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 07:52	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 07:52	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 07:52	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 07:52	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 07:52	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 07:52	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 07:52	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:52	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 07:52	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 07:52	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 07:52	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 07:52	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 07:52	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 07:52	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 07:52	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 07:52	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 07:52	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 07:52	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 07:52	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 07:52	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:52	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 07:52	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 07:52	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 07:52	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 07:52	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 07:52	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 07:52	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593014** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-TripBlank-2** Date Collected: 11/14/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/18/2017 07:52	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/18/2017 07:52	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		11/18/2017 07:52	
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	11/18/2017 07:52	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 07:52	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/18/2017 07:52	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/18/2017 07:52	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/18/2017 07:52	

Lab ID: **J1711593015** Date Received: 11/15/17 08:45 Matrix: Water
Sample ID: **17318-DUP-1** Date Collected: 11/14/17 12:00

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**	10	9.0	11/29/2017 14:37	J
Barium	**70**		**ug/L**	**1**	2.0	0.83	11/29/2017 14:37	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/29/2017 14:37	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/29/2017 14:37	J
Chromium	**3.1**		**ug/L**	**1**	3.0	1.6	11/29/2017 14:37	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/29/2017 14:37	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/29/2017 14:37	J
Iron	**4600**		**ug/L**	**1**	200	100	11/29/2017 14:37	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/29/2017 14:37	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/29/2017 14:37	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/29/2017 14:37	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/29/2017 14:37	J
Sodium	**240**		**mg/L**	**1**	0.70	0.34	11/29/2017 14:37	J
Vanadium	**7.8**		**ug/L**	**1**	1.0	0.55	11/29/2017 14:37	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	11/29/2017 14:37	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593015** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-DUP-1** Date Collected: 11/14/17 12:00

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	**0.11**	**I**	**ug/L**	**1**	0.70	0.046	11/20/2017 17:49	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/20/2017 17:49	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	11/21/2017 13:57	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 08:18	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 08:18	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:18	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 08:18	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 08:18	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:18	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 08:18	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:18	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 08:18	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:18	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 08:18	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 08:18	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 08:18	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 08:18	J
Acetone	**8.2**		**ug/L**	**1**	5.0	2.1	11/18/2017 08:18	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 08:18	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 08:18	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 08:18	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 08:18	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 08:18	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 08:18	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 08:18	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 08:18	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 08:18	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 08:18	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:18	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 08:18	J

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593015** Date Received: 11/15/17 08:45 Matrix: Water

Sample ID: **17318-DUP-1** Date Collected: 11/14/17 12:00

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	11/18/2017 08:18	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 08:18	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 08:18	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 08:18	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 08:18	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 08:18	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 08:18	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 08:18	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 08:18	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 08:18	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 08:18	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:18	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 08:18	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 08:18	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 08:18	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:18	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:18	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 08:18	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/18/2017 08:18	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/18/2017 08:18	
Bromofluorobenzene (S)	**118**		**%**	**1**	86-123		11/18/2017 08:18	
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	11/18/2017 08:18	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 08:18	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/18/2017 08:18	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/18/2017 08:18	
Bromofluorobenzene (S)	**116**		**%**	**1**	80-129		11/18/2017 08:18	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**490**		**mg/L**	**5**	25	2.5	11/15/2017 21:20	J
Nitrate	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/15/2017 21:20	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.3**		**mg/L**	**5**	0.050	0.040	11/28/2017 11:33	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711593015**
Sample ID: **17318-DUP-1**

Date Received: 11/15/17 08:45 Matrix: Water
Date Collected: 11/14/17 12:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1000**		**mg/L**	**1**	10	10	11/16/2017 10:38	J

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1711593 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.

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: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/3793 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/16/2017 03:30

Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005, J1711593006, J1711593008, J1711593009,

METHOD BLANK: 2532887

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.34	0.34	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: DGMj/3795 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 11/16/2017 03:30

Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005, J1711593006, J1711593008, J1711593009,

METHOD BLANK: 2533154

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: WCAj/5446 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005, J1711593006, J1711593008, J1711593009,

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QUALITY CONTROL DATA

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2533602

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

QC Batch: WCAj/5455 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005

METHOD BLANK: 2534133

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

QC Batch: WCAj/5456 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1711593006, J1711593008, J1711593009, J1711593010, J1711593011, J1711593012, J1711593013, J1711593015

METHOD BLANK: 2534139

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

QC Batch: MSVj/5220 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/16/2017 11:37
Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005, J1711593006, J1711593007, J1711593008,

METHOD BLANK: 2535111

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	0.24	0.24	U

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QUALITY CONTROL DATA

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2535111

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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	0.21	0.21	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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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)	%	113	86-123	

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QUALITY CONTROL DATA

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2535111

QC Batch: MSVj/5222 Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B Prepared: 11/16/2017 10:00
Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005, J1711593006, J1711593007, J1711593008,

METHOD BLANK: 2535115

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)	%	98	77-125	
Toluene-d8 (S)	%	107	80-121	
Bromofluorobenzene (S)	%	110	80-129	

QC Batch: DGMj/3828 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 11/21/2017 09:55
Associated Lab Samples: J1711593001, J1711593002, J1711593003, J1711593004, J1711593005, J1711593006, J1711593008, J1711593009,

METHOD BLANK: 2538117

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

QC Batch: WCAg/6593 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1711593001, J1711593002

METHOD BLANK: 2539512

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

QC Batch: WCAg/6633 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:

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QUALITY CONTROL DATA

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Associated Lab Samples: J1711593003, J1711593004, J1711593005, J1711593006, J1711593008, J1711593009, J1711593010, J1711593011,

METHOD BLANK: 2543636

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 CROSS REFERENCE TABLE

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711593001	17318-MW-27A	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593002	17318-MW-27B	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593003	17318-MW-28A	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593004	17318-MW-28B	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593005	17318-MW-24A	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593006	17318-MW-24B	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593008	17318-MW-22AR	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593009	17318-MW-22BR	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593010	17318-MW-23A	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593011	17318-MW-23B	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593012	17318-MW-1A	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593013	17318-MW-1B	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593015	17318-DUP-1	SW-846 3010A	DGMj/3793	SW-846 6010	ICPj/2380
J1711593001	17318-MW-27A	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593002	17318-MW-27B	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593003	17318-MW-28A	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593004	17318-MW-28B	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593005	17318-MW-24A	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593006	17318-MW-24B	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593008	17318-MW-22AR	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593009	17318-MW-22BR	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593010	17318-MW-23A	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593011	17318-MW-23B	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593012	17318-MW-1A	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593013	17318-MW-1B	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593015	17318-DUP-1	SW-846 3010A	DGMj/3795	SW-846 6020	ICMj/1786
J1711593001	17318-MW-27A			SM 2540 C	WCAj/5446
J1711593002	17318-MW-27B			SM 2540 C	WCAj/5446
J1711593003	17318-MW-28A			SM 2540 C	WCAj/5446
J1711593004	17318-MW-28B			SM 2540 C	WCAj/5446
J1711593005	17318-MW-24A			SM 2540 C	WCAj/5446
J1711593006	17318-MW-24B			SM 2540 C	WCAj/5446

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711593008	17318-MW-22AR			SM 2540 C	WCAj/5446
J1711593009	17318-MW-22BR			SM 2540 C	WCAj/5446
J1711593010	17318-MW-23A			SM 2540 C	WCAj/5446
J1711593011	17318-MW-23B			SM 2540 C	WCAj/5446
J1711593012	17318-MW-1A			SM 2540 C	WCAj/5446
J1711593013	17318-MW-1B			SM 2540 C	WCAj/5446
J1711593015	17318-DUP-1			SM 2540 C	WCAj/5446
J1711593001	17318-MW-27A			EPA 300.0	WCAj/5455
J1711593002	17318-MW-27B			EPA 300.0	WCAj/5455
J1711593003	17318-MW-28A			EPA 300.0	WCAj/5455
J1711593004	17318-MW-28B			EPA 300.0	WCAj/5455
J1711593005	17318-MW-24A			EPA 300.0	WCAj/5455
J1711593006	17318-MW-24B			EPA 300.0	WCAj/5456
J1711593008	17318-MW-22AR			EPA 300.0	WCAj/5456
J1711593009	17318-MW-22BR			EPA 300.0	WCAj/5456
J1711593010	17318-MW-23A			EPA 300.0	WCAj/5456
J1711593011	17318-MW-23B			EPA 300.0	WCAj/5456
J1711593012	17318-MW-1A			EPA 300.0	WCAj/5456
J1711593013	17318-MW-1B			EPA 300.0	WCAj/5456
J1711593015	17318-DUP-1			EPA 300.0	WCAj/5456
J1711593001	17318-MW-27A	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593002	17318-MW-27B	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593003	17318-MW-28A	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593004	17318-MW-28B	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593005	17318-MW-24A	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593006	17318-MW-24B	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593007	17318-TripBlank-1	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593008	17318-MW-22AR	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593009	17318-MW-22BR	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593010	17318-MW-23A	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593011	17318-MW-23B	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221

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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: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711593012	17318-MW-1A	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593013	17318-MW-1B	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593014	17318-TripBlank-2	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593015	17318-DUP-1	SW-846 5030B	MSVj/5220	SW-846 8260B	MSVj/5221
J1711593001	17318-MW-27A	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593002	17318-MW-27B	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593003	17318-MW-28A	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593004	17318-MW-28B	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593005	17318-MW-24A	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593006	17318-MW-24B	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593007	17318-TripBlank-1	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593008	17318-MW-22AR	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593009	17318-MW-22BR	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593010	17318-MW-23A	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593011	17318-MW-23B	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593012	17318-MW-1A	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593013	17318-MW-1B	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593014	17318-TripBlank-2	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593015	17318-DUP-1	SW-846 5030B	MSVj/5222	SW-846 8260B (SIM)	MSVj/5223
J1711593001	17318-MW-27A	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593002	17318-MW-27B	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593003	17318-MW-28A	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593004	17318-MW-28B	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593005	17318-MW-24A	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593006	17318-MW-24B	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593008	17318-MW-22AR	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593009	17318-MW-22BR	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593010	17318-MW-23A	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593011	17318-MW-23B	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593012	17318-MW-1A	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593013	17318-MW-1B	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648
J1711593015	17318-DUP-1	SW-846 7470A	DGMj/3828	SW-846 7470A	CVAj/1648

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711593 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711593001	17318-MW-27A			EPA 350.1	WCAg/6593
J1711593002	17318-MW-27B			EPA 350.1	WCAg/6593
J1711593003	17318-MW-28A			EPA 350.1	WCAg/6633
J1711593004	17318-MW-28B			EPA 350.1	WCAg/6633
J1711593005	17318-MW-24A			EPA 350.1	WCAg/6633
J1711593006	17318-MW-24B			EPA 350.1	WCAg/6633
J1711593008	17318-MW-22AR			EPA 350.1	WCAg/6633
J1711593009	17318-MW-22BR			EPA 350.1	WCAg/6633
J1711593010	17318-MW-23A			EPA 350.1	WCAg/6633
J1711593011	17318-MW-23B			EPA 350.1	WCAg/6633
J1711593012	17318-MW-1A			EPA 350.1	WCAg/6633
J1711593013	17318-MW-1B			EPA 350.1	WCAg/6633
J1711593015	17318-DUP-1			EPA 350.1	WCAg/6633

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32216
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 3230
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.

J1711593

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-380-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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: St. Cloud, FL
FDEP Facility No: 89544
Project Name and Address:

Special Instructions: Jax Profile: 31172
■ ADaPT ☐ EQuIS

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	App I VOAs+EDB/DBCP (BOTTLE SIZE & TYPE: 40 mL Vials) HCL	App I Metals+Fe,Hg,Na (500 mL Plastic) HNO3	Cl/NO3/TDS (500 mL Plastic) Ice	NH3 (250 mL Plastic) H2SO4	LABORATORY I.D. NUMBER
17318-MW-27A		G	11-14-17	0705	GW	6		3	1	1	1	001
17318-MW-27B		G	11-14-17	0635	GW	6		3	1	1	1	002
17318-MW-28A		G	11-14-17	0825	GW	6		3	1	1	1	003
17318-MW-28B		G	11-14-17	0755	GW	6		3	1	1	1	004
17318-MW-24A		G	11-14-17	1005	GW	6		3	1	1	1	005
17318-MW-24B		G	11-14-17	0935	GW	6		3	1	1	1	006
17318-TripBlank-1		G	11-14-17	0000	DI H_2O	3		3				007

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) 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Joe Terry	11-14-17	1600	FedEx		
2	FedEx	11-15-17	8:45		11-15-17	8:45
3						
4						

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

Thursday, December 14, 2017 1:00:23 PM
Page 53 of 55

Advanced Environmental Laboratories, Inc.

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☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 •
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, F
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 5

J1711593

7.1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EAS)
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: St. Cloud, FL
FDEP Facility No: 89544
Project Name and Address:

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							
							PRESERVATION	HCL	HNO3	Ice	H2SO4							
17318-MW-22AR		G	11.14.17	1125	GW	6		3	1	1	1							008
17318-MW-22BR		G	11.14.17	1100	GW	6		3	1	1	1							009
17318-MW-23A		G	11.14.17	1305	GW	6		3	1	1	1							010
17318-MW-23B		G	11.14.17	1235	GW	6		3	1	1	1							011
17318-MW-1A		G	11.14.17	1430	GW	6		3	1	1	1							012
17318-MW-1B		G	11.14.17	1400	GW	6		3	1	1	1							013
17318-TripBlank-2		G	11.14.17	0000	DI H_2O	2		2										014
17318-Dup-2		G	11.14.17	1200	GW	6		3	1	1	1							015

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	Joe Terry	11.14.17	1600	Fedex		
2	Fedex	11-15-17	8:45	Bob Arnold	11-15-17	8:45
3						
4						

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

Thursday, December 14, 2017 1:00:23 PM

Advanced Environmental Labs Inc

Client: Waste Connections Project name: JED LANDFILL

Date/Time Rcvd: 11-15-17 8:45 Log-In request number: J1711593

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?	✓		X 11/15/17
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-2 vials only had two unpreserved vials.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

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December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1712048 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, November 29, 2017. 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: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1712048001	17332-MW-2A	Water	11/28/2017 11:40	11/29/2017 09:15
J1712048002	17332-MW-2B	Water	11/28/2017 11:05	11/29/2017 09:15
J1712048003	17332-MW-3A	Water	11/28/2017 09:55	11/29/2017 09:15
J1712048004	17332-MW-3B	Water	11/28/2017 09:20	11/29/2017 09:15
J1712048005	17332-MW-4A	Water	11/28/2017 08:10	11/29/2017 09:15
J1712048006	17332-MW-4B	Water	11/28/2017 07:40	11/29/2017 09:15
J1712048007	17332-TripBlank-10	Water	11/28/2017 00:00	11/29/2017 09:15

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048001** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-2A** Date Collected: 11/28/17 11:40

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**	10	9.0	12/4/2017 13:26	J
Barium	**75**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:26	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:26	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:26	J
Chromium	**2.2**	**I**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:26	J
Cobalt	**4.2**		**ug/L**	**1**	4.0	1.9	12/4/2017 13:26	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:26	J
Iron	**12000**		**ug/L**	**1**	200	100	12/4/2017 13:26	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:26	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:26	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:26	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:26	J
Sodium	**64**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:26	J
Vanadium	**6.5**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:26	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:26	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.084**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 22:56	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 22:56	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:50	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 11:26	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 11:26	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:26	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 11:26	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 11:26	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:26	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 11:26	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048001**
Sample ID: **17332-MW-2A**

Date Received: 11/29/17 09:15 Matrix: Water
Date Collected: 11/28/17 11:40

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	11/29/2017 11:26	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 11:26	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:26	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 11:26	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 11:26	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 11:26	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 11:26	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/29/2017 11:26	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 11:26	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 11:26	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 11:26	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 11:26	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 11:26	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 11:26	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 11:26	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 11:26	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 11:26	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 11:26	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:26	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 11:26	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 11:26	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 11:26	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 11:26	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 11:26	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 11:26	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 11:26	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 11:26	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 11:26	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 11:26	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/29/2017 11:26	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 11:26	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:26	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 11:26	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 11:26	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 11:26	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:26	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:26	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 11:26	J
1,2-Dichloroethane-d4 (S)	**103**		**%**	**1**	70-128		11/29/2017 11:26	
Toluene-d8 (S)	**103**		**%**	**1**	77-119		11/29/2017 11:26	

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048001** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-2A** Date Collected: 11/28/17 11:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		11/29/2017 11:26	
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	11/29/2017 11:26	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 11:26	J
1,2-Dichloroethane-d4 (S)	**93**		**%**	**1**	77-125		11/29/2017 11:26	
Toluene-d8 (S)	**106**		**%**	**1**	80-121		11/29/2017 11:26	
Bromofluorobenzene (S)	**112**		**%**	**1**	80-129		11/29/2017 11:26	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**190**	**J4**	**mg/L**	**2**	10	1.0	11/29/2017 13:51	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/29/2017 13:51	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.2**		**mg/L**	**5**	0.050	0.040	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**750**		**mg/L**	**1**	10	10	11/30/2017 12:53	J

Lab ID: **J1712048002** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-2B** Date Collected: 11/28/17 11:05

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**	10	9.0	12/4/2017 13:29	J
Barium	**55**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:29	J
Beryllium	**1.0**		**ug/L**	**1**	0.80	0.40	12/4/2017 13:29	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:29	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:29	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048002** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-2B** Date Collected: 11/28/17 11:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**14**		**ug/L**	**1**	4.0	1.9	12/4/2017 13:29	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:29	J
Iron	**41000**		**ug/L**	**1**	200	100	12/4/2017 13:29	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:29	J
Nickel	**6.3**	**I**	**ug/L**	**1**	10	6.0	12/4/2017 13:29	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:29	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:29	J
Sodium	**71**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:29	J
Vanadium	**5.6**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:29	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:29	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	0.046	11/30/2017 23:12	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 23:12	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:53	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 11:57	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 11:57	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:57	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 11:57	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 11:57	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:57	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 11:57	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:57	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 11:57	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:57	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 11:57	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 11:57	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 11:57	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 11:57	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/29/2017 11:57	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 11:57	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048002** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-2B** Date Collected: 11/28/17 11:05

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	11/29/2017 11:57	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 11:57	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 11:57	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 11:57	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 11:57	J
Carbon Disulfide	**0.31**	**I**	**ug/L**	**1**	1.0	0.21	11/29/2017 11:57	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 11:57	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 11:57	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 11:57	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:57	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 11:57	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 11:57	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 11:57	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 11:57	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 11:57	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 11:57	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 11:57	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 11:57	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 11:57	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 11:57	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/29/2017 11:57	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 11:57	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:57	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 11:57	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 11:57	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 11:57	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 11:57	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 11:57	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 11:57	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/29/2017 11:57	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/29/2017 11:57	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/29/2017 11:57	
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	11/29/2018 11:57	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2018 11:57	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/29/2018 11:57	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/29/2018 11:57	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/29/2018 11:57	

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048002** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-2B** Date Collected: 11/28/17 11:05

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	**220**		**mg/L**	**2**	10	1.0	11/29/2017 14:34	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/29/2017 14:34	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.1**		**mg/L**	**5**	0.050	0.040	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**850**		**mg/L**	**1**	10	10	11/30/2017 12:53	J

Lab ID: **J1712048003** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-3A** Date Collected: 11/28/17 09:55

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**	10	9.0	12/4/2017 13:31	J
Barium	**78**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:31	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:31	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:31	J
Chromium	**3.0**	**I**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:31	J
Cobalt	**4.5**		**ug/L**	**1**	4.0	1.9	12/4/2017 13:31	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:31	J
Iron	**15000**		**ug/L**	**1**	200	100	12/4/2017 13:31	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:31	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:31	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:31	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:31	J
Sodium	**22**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:31	J
Vanadium	**4.6**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:31	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:31	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048003** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-3A** Date Collected: 11/28/17 09:55

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	**0.048**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 23:16	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 23:16	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:56	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 12:26	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 12:26	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 12:26	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 12:26	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 12:26	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 12:26	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 12:26	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 12:26	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 12:26	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 12:26	J
1,4-Dichlorobenzene	**0.64**	**I**	**ug/L**	**1**	1.0	0.22	11/29/2017 12:26	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 12:26	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 12:26	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 12:26	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/29/2017 12:26	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 12:26	J
Benzene	**2.5**		**ug/L**	**1**	1.0	0.16	11/29/2017 12:26	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 12:26	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 12:26	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 12:26	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 12:26	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 12:26	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 12:26	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 12:26	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 12:26	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 12:26	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 12:26	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048003** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-3A** Date Collected: 11/28/17 09:55

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	11/29/2017 12:26	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 12:26	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 12:26	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 12:26	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 12:26	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 12:26	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 12:26	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 12:26	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 12:26	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/29/2017 12:26	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 12:26	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 12:26	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 12:26	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 12:26	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 12:26	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 12:26	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 12:26	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 12:26	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/29/2017 12:26	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/29/2017 12:26	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/29/2017 12:26	
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	11/29/2017 12:26	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 12:26	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/29/2017 12:26	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/29/2017 12:26	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/29/2017 12:26	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**13**		**mg/L**	**2**	10	1.0	11/29/2017 14:55	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/29/2017 14:55	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**14**		**mg/L**	**25**	0.25	0.20	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048003** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-3A** Date Collected: 11/28/17 09:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	11/30/2017 12:53	J

Lab ID: **J1712048004** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-3B** Date Collected: 11/28/17 09:20

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**	10	9.0	12/4/2017 13:34	J
Barium	**45**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:34	J
Beryllium	**2.0**		**ug/L**	**1**	0.80	0.40	12/4/2017 13:34	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:34	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:34	J
Cobalt	**4.0**	**I**	**ug/L**	**1**	4.0	1.9	12/4/2017 13:34	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:34	J
Iron	**9900**		**ug/L**	**1**	200	100	12/4/2017 13:34	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:34	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:34	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:34	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:34	J
Sodium	**31**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:34	J
Vanadium	**5.2**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:34	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:34	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 23:20	J
Thallium	**0.070**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 23:20	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 14:00	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048004** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-3B** Date Collected: 11/28/17 09:20

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 13:02	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 13:02	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:02	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 13:02	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 13:02	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:02	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 13:02	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:02	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 13:02	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:02	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 13:02	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 13:02	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 13:02	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 13:02	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/29/2017 13:02	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 13:02	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 13:02	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 13:02	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 13:02	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 13:02	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 13:02	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 13:02	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 13:02	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 13:02	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 13:02	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:02	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 13:02	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 13:02	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 13:02	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 13:02	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 13:02	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 13:02	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 13:02	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 13:02	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 13:02	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 13:02	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048004** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-3B** Date Collected: 11/28/17 09:20

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	11/29/2017 13:02	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 13:02	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:02	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 13:02	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 13:02	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 13:02	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:02	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:02	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 13:02	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/29/2017 13:02	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/29/2017 13:02	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		11/29/2017 13:02	
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	11/29/2017 13:02	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 13:02	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/29/2017 13:02	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/29/2017 13:02	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		11/29/2017 13:02	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**70**		**mg/L**	**2**	10	1.0	11/29/2017 15:16	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/29/2017 15:16	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.8**		**mg/L**	**10**	0.10	0.080	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1500**		**mg/L**	**1**	10	10	11/30/2017 12:53	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048005** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-4A** Date Collected: 11/28/17 08:10

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**	10	9.0	12/4/2017 13:52	J
Barium	**85**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:52	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:52	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:52	J
Chromium	**1.6**	**I**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:52	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/4/2017 13:52	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:52	J
Iron	**12000**		**ug/L**	**1**	200	100	12/4/2017 13:52	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:52	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:52	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:52	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:52	J
Sodium	**33**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:52	J
Vanadium	**2.5**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:52	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:52	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 23:24	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 23:24	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 14:03	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 13:31	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 13:31	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:31	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 13:31	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 13:31	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:31	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 13:31	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048005** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-4A** Date Collected: 11/28/17 08:10

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	11/29/2017 13:31	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 13:31	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:31	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 13:31	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 13:31	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 13:31	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 13:31	J
Acetone	**7.2**		**ug/L**	**1**	5.0	2.1	11/29/2017 13:31	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 13:31	J
Benzene	**1.2**		**ug/L**	**1**	1.0	0.16	11/29/2017 13:31	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 13:31	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 13:31	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 13:31	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 13:31	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 13:31	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 13:31	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 13:31	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 13:31	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:31	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 13:31	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 13:31	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 13:31	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 13:31	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 13:31	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 13:31	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 13:31	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 13:31	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 13:31	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 13:31	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/29/2017 13:31	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 13:31	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:31	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 13:31	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 13:31	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 13:31	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 13:31	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 13:31	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 13:31	J
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	70-128		11/29/2017 13:31	
Toluene-d8 (S)	**103**		**%**	**1**	77-119		11/29/2017 13:31	

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048005** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-4A** Date Collected: 11/28/17 08:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/29/2017 13:31	
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	11/29/2017 13:31	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 13:31	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/29/2017 13:31	
Toluene-d8 (S)	**106**		**%**	**1**	80-121		11/29/2017 13:31	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/29/2017 13:31	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**2**	10	1.0	11/29/2017 15:37	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/29/2017 15:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**18**		**mg/L**	**50**	0.50	0.40	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1200**		**mg/L**	**1**	10	10	11/30/2017 12:53	J

Lab ID: **J1712048006** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-4B** Date Collected: 11/28/17 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**	10	9.0	12/4/2017 13:55	J
Barium	**46**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:55	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:55	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:55	J
Chromium	**2.3**	**I**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:55	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048006** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-4B** Date Collected: 11/28/17 07:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/4/2017 13:55	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:55	J
Iron	**180**	**I**	**ug/L**	**1**	200	100	12/4/2017 13:55	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:55	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:55	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:55	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:55	J
Sodium	**74**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:55	J
Vanadium	**8.6**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:55	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:55	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	0.046	11/30/2017 23:27	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 23:27	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 14:06	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 14:08	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 14:08	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:08	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 14:08	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 14:08	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:08	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 14:08	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:08	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 14:08	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:08	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 14:08	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 14:08	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 14:08	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 14:08	J
Acetone	**3.3**	**I**	**ug/L**	**1**	5.0	2.1	11/29/2017 14:08	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 14:08	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048006** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-MW-4B** Date Collected: 11/28/17 07:40

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	11/29/2017 14:08	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 14:08	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 14:08	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 14:08	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 14:08	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 14:08	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 14:08	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 14:08	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 14:08	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:08	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 14:08	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 14:08	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 14:08	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 14:08	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 14:08	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 14:08	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 14:08	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 14:08	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 14:08	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 14:08	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/29/2017 14:08	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 14:08	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:08	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 14:08	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 14:08	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 14:08	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:08	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:08	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 14:08	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/29/2017 14:08	
Toluene-d8 (S)	**102**		**%**	**1**	77-119		11/29/2017 14:08	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/29/2017 14:08	
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	11/29/2017 14:08	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 14:08	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/29/2017 14:08	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		11/29/2017 14:08	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/29/2017 14:08	

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048006** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-MW-4B** Date Collected: 11/28/17 07:40

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	**120**		**mg/L**	**2**	10	1.0	11/29/2017 15:58	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/29/2017 15:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**21**		**mg/L**	**50**	0.50	0.40	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	11/30/2017 12:53	J

Lab ID: **J1712048007** Date Received: 11/29/17 09:15 Matrix: Water
Sample ID: **17332-TripBlank-10** Date Collected: 11/28/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 14:37	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 14:37	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:37	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 14:37	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/29/2017 14:37	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:37	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/29/2017 14:37	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:37	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 14:37	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:37	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/29/2017 14:37	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/29/2017 14:37	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/29/2017 14:37	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/29/2017 14:37	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/29/2017 14:37	J

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048007** Date Received: 11/29/17 09:15 Matrix: Water

Sample ID: **17332-TripBlank-10** Date Collected: 11/28/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/29/2017 14:37	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 14:37	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/29/2017 14:37	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/29/2017 14:37	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/29/2017 14:37	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 14:37	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 14:37	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 14:37	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 14:37	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 14:37	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:37	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/29/2017 14:37	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/29/2017 14:37	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/29/2017 14:37	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 14:37	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 14:37	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/29/2017 14:37	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 14:37	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/29/2017 14:37	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/29/2017 14:37	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/29/2017 14:37	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/29/2017 14:37	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/29/2017 14:37	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:37	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/29/2017 14:37	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/29/2017 14:37	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/29/2017 14:37	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/29/2017 14:37	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/29/2017 14:37	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/29/2017 14:37	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/29/2017 14:37	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/29/2017 14:37	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/29/2017 14:37	
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	11/29/2017 14:37	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 14:37	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/29/2017 14:37	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/29/2017 14:37	

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ANALYTICAL RESULTS

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1712048007**
Sample ID: **17332-TripBlank-10**

Date Received: 11/29/17 09:15 Matrix: Water
Date Collected: 11/28/17 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/29/2017 14:37	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1712048 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: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/3862 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 11/30/2017 03:30
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006

METHOD BLANK: 2544775

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.34	0.34	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: DGMj/3863 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 11/30/2017 03:30
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006

METHOD BLANK: 2544782

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: MSVj/5291 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/29/2017 09:01
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006, J1712048007

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QUALITY CONTROL DATA

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2545583

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	0.24	0.24	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	0.21	0.21	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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2545583

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	113	70-128	
Toluene-d8 (S)	%	107	77-119	
Bromofluorobenzene (S)	%	117	86-123	

QC Batch: MSVj/5293 Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B Prepared: 11/29/2017 09:01
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006, J1712048007

METHOD BLANK: 2545591

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)	%	102	77-125	
Toluene-d8 (S)	%	111	80-121	
Bromofluorobenzene (S)	%	115	80-129	

QC Batch: WCAj/5544 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006

METHOD BLANK: 2546090

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

QC Batch: WCAj/5554 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006

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QUALITY CONTROL DATA

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2547753

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

QC Batch: DGMj/3886 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 12/05/2017 10:40
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006

METHOD BLANK: 2549754

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

QC Batch: WCAg/6706 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1712048001, J1712048002, J1712048003, J1712048004, J1712048005, J1712048006

METHOD BLANK: 2553195

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 CROSS REFERENCE TABLE

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1712048001	17332-MW-2A	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1712048002	17332-MW-2B	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1712048003	17332-MW-3A	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1712048004	17332-MW-3B	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1712048005	17332-MW-4A	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1712048006	17332-MW-4B	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1712048001	17332-MW-2A	SW-846 3010A	DGMj/3863	SW-846 6020	ICMj/1806
J1712048002	17332-MW-2B	SW-846 3010A	DGMj/3863	SW-846 6020	ICMj/1806
J1712048003	17332-MW-3A	SW-846 3010A	DGMj/3863	SW-846 6020	ICMj/1806
J1712048004	17332-MW-3B	SW-846 3010A	DGMj/3863	SW-846 6020	ICMj/1806
J1712048005	17332-MW-4A	SW-846 3010A	DGMj/3863	SW-846 6020	ICMj/1806
J1712048006	17332-MW-4B	SW-846 3010A	DGMj/3863	SW-846 6020	ICMj/1806
J1712048001	17332-MW-2A	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048002	17332-MW-2B	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048003	17332-MW-3A	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048004	17332-MW-3B	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048005	17332-MW-4A	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048006	17332-MW-4B	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048007	17332-TripBlank-10	SW-846 5030B	MSVj/5291	SW-846 8260B	MSVj/5292
J1712048001	17332-MW-2A	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048002	17332-MW-2B	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048003	17332-MW-3A	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048004	17332-MW-3B	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048005	17332-MW-4A	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048006	17332-MW-4B	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048007	17332-TripBlank-10	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1712048001	17332-MW-2A			SM 2540 C	WCAj/5544
J1712048002	17332-MW-2B			SM 2540 C	WCAj/5544
J1712048003	17332-MW-3A			SM 2540 C	WCAj/5544

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1712048 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1712048004	17332-MW-3B			SM 2540 C	WCAj/5544
J1712048005	17332-MW-4A			SM 2540 C	WCAj/5544
J1712048006	17332-MW-4B			SM 2540 C	WCAj/5544
J1712048001	17332-MW-2A			EPA 300.0	WCAj/5554
J1712048002	17332-MW-2B			EPA 300.0	WCAj/5554
J1712048003	17332-MW-3A			EPA 300.0	WCAj/5554
J1712048004	17332-MW-3B			EPA 300.0	WCAj/5554
J1712048005	17332-MW-4A			EPA 300.0	WCAj/5554
J1712048006	17332-MW-4B			EPA 300.0	WCAj/5554
J1712048001	17332-MW-2A	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1712048002	17332-MW-2B	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1712048003	17332-MW-3A	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1712048004	17332-MW-3B	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1712048005	17332-MW-4A	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1712048006	17332-MW-4B	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1712048001	17332-MW-2A			EPA 350.1	WCAg/6706
J1712048002	17332-MW-2B			EPA 350.1	WCAg/6706
J1712048003	17332-MW-3A			EPA 350.1	WCAg/6706
J1712048004	17332-MW-3B			EPA 350.1	WCAg/6706
J1712048005	17332-MW-4A			EPA 350.1	WCAg/6706
J1712048006	17332-MW-4B			EPA 350.1	WCAg/6706

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.63

J1712048

7

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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
15010 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							
17332-MW-2A		G	11-28-17	1140	GW	6			3	1	1	1							001
17332-MW-2B		G	11-28-17	1105	GW	6			3	1	1	1							002
17332-MW-3A		G	11-28-17	0955	GW	6			3	1	1	1							003
17332-MW-3B		G	11-28-17	0920	GW	6			3	1	1	1							004
17332-MW-4A		G	11-28-17	0810	GW	6			3	1	1	1							005
17332-MW-4B		G	11-28-17	0740	GW	6			3	1	1	1							006
17332-Trip Blank-10		G	11-28-17	0000	DI H2O	2			2										007

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		11-28-17	1300	Fedex		
2	Fedex	11-29-17	9:15		11-29-17	9:15
3						
4						

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

Thursday, December 07, 2017 11:02:34 AM
Page 29 of 30

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D Landfill

Date/Time Rcvd: 11-29-17 9:15 Log-In request number: J1712048

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.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1712048

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) recovery of Chloride for J1712048001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The analyte in question was not detected in the client samples. No further corrective action is required.

E. Serial Diluion:

F. Samples:

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

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

December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1711989 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 Tuesday, November 28, 2017. 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: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1711989001	17331-MW-5A	Water	11/27/2017 15:40	11/28/2017 09:30
J1711989002	17331-MW-5B	Water	11/27/2017 15:00	11/28/2017 09:30
J1711989003	17331-MW-6A	Water	11/27/2017 14:05	11/28/2017 09:30
J1711989004	17331-MW-6B	Water	11/27/2017 13:35	11/28/2017 09:30
J1711989005	17331-TripBlank-9	Water	11/27/2017 00:00	11/28/2017 09:30

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989001** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-5A** Date Collected: 11/27/17 15:40

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**	10	9.0	12/4/2017 12:43	J
Barium	**9.3**		**ug/L**	**1**	2.0	0.83	12/4/2017 12:43	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 12:43	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 12:43	J
Chromium	**2.9**	**I**	**ug/L**	**1**	3.0	1.6	12/4/2017 12:43	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/4/2017 12:43	J
Copper	**3.4**	**I**	**ug/L**	**1**	6.0	3.2	12/4/2017 12:43	J
Iron	**1200**		**ug/L**	**1**	200	100	12/4/2017 12:43	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 12:43	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 12:43	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 12:43	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 12:43	J
Sodium	**22**		**mg/L**	**1**	0.70	0.34	12/4/2017 12:43	J
Vanadium	**1.6**		**ug/L**	**1**	1.0	0.55	12/4/2017 12:43	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 12:43	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.17**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:55	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:55	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.026**	**I**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:20	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 13:24	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 13:24	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:24	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 13:24	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2017 13:24	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:24	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 13:24	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989001**
Sample ID: **17331-MW-5A**

Date Received: 11/28/17 09:30 Matrix: Water
Date Collected: 11/27/17 15:40

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	11/28/2017 13:24	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 13:24	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:24	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 13:24	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2017 13:24	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/28/2017 13:24	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2017 13:24	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2017 13:24	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2017 13:24	J
Benzene	**0.35**	**I**	**ug/L**	**1**	1.0	0.16	11/28/2017 13:24	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2017 13:24	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/28/2017 13:24	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/28/2017 13:24	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 13:24	J
Carbon Disulfide	**0.47**	**I**	**ug/L**	**1**	1.0	0.21	11/28/2017 13:24	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 13:24	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 13:24	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 13:24	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:24	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 13:24	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 13:24	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 13:24	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 13:24	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 13:24	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2017 13:24	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 13:24	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 13:24	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 13:24	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2017 13:24	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2017 13:24	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/28/2017 13:24	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:24	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2017 13:24	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 13:24	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 13:24	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:24	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:24	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2017 13:24	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/28/2017 13:24	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/28/2017 13:24	

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989001** Date Received: 11/28/17 09:30 Matrix: Water
Sample ID: **17331-MW-5A** Date Collected: 11/27/17 15:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/28/2017 13:24	
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	11/29/2017 15:13	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 15:13	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		11/29/2017 15:13	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/29/2017 15:13	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/29/2017 15:13	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**26**		**mg/L**	**5**	25	2.5	11/28/2017 17:48	J
Nitrate	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/28/2017 17:48	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.4**		**mg/L**	**20**	0.20	0.16	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**310**		**mg/L**	**1**	10	10	11/29/2017 15:18	J

Lab ID: **J1711989002** Date Received: 11/28/17 09:30 Matrix: Water
Sample ID: **17331-MW-5B** Date Collected: 11/27/17 15:00

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**	10	9.0	12/4/2017 13:17	J
Barium	**40**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:17	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:17	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:17	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:17	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989002** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-5B** Date Collected: 11/27/17 15:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/4/2017 13:17	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:17	J
Iron	**150**	**I**	**ug/L**	**1**	200	100	12/4/2017 13:17	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:17	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:17	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:17	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:17	J
Sodium	**37**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:17	J
Vanadium	**3.0**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:17	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:17	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.12**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:59	J
Thallium	**0.068**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:59	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:23	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 13:54	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 13:54	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:54	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 13:54	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2017 13:54	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:54	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 13:54	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:54	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 13:54	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:54	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 13:54	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2017 13:54	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/28/2017 13:54	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2017 13:54	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2017 13:54	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2017 13:54	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989002** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-5B** Date Collected: 11/27/17 15:00

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	11/28/2017 13:54	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2017 13:54	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/28/2017 13:54	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/28/2017 13:54	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 13:54	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 13:54	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 13:54	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 13:54	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 13:54	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:54	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 13:54	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 13:54	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 13:54	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 13:54	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 13:54	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2017 13:54	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 13:54	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 13:54	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 13:54	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2017 13:54	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2017 13:54	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/28/2017 13:54	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:54	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2017 13:54	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 13:54	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 13:54	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 13:54	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 13:54	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2017 13:54	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/28/2017 13:54	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/28/2017 13:54	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		11/28/2017 13:54	
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	11/29/2017 15:42	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 15:42	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/29/2017 15:42	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		11/29/2017 15:42	
Bromofluorobenzene (S)	**107**		**%**	**1**	80-129		11/29/2017 15:42	

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989002** Date Received: 11/28/17 09:30 Matrix: Water
Sample ID: **17331-MW-5B** Date Collected: 11/27/17 15:00

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	**100**		**mg/L**	**10**	50	5.0	11/28/2017 18:09	J
Nitrate	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	11/28/2017 18:09	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**9.6**		**mg/L**	**20**	0.20	0.16	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	11/29/2017 15:18	J

Lab ID: **J1711989003** Date Received: 11/28/17 09:30 Matrix: Water
Sample ID: **17331-MW-6A** Date Collected: 11/27/17 14:05

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**	10	9.0	12/4/2017 13:20	J
Barium	**9.7**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:20	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:20	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:20	J
Chromium	**2.2**	**I**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:20	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/4/2017 13:20	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:20	J
Iron	**13000**		**ug/L**	**1**	200	100	12/4/2017 13:20	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:20	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:20	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:20	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:20	J
Sodium	**21**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:20	J
Vanadium	**5.1**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:20	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:20	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989003** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-6A** Date Collected: 11/27/17 14:05

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	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 18:03	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 18:03	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:38	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 14:23	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 14:23	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:23	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 14:23	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2017 14:23	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:23	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 14:23	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:23	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 14:23	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:23	J
1,4-Dichlorobenzene	**0.71**	**I**	**ug/L**	**1**	1.0	0.22	11/28/2017 14:23	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2017 14:23	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/28/2017 14:23	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2017 14:23	J
Acetone	**2.2**	**I**	**ug/L**	**1**	5.0	2.1	11/28/2017 14:23	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2017 14:23	J
Benzene	**5.0**		**ug/L**	**1**	1.0	0.16	11/28/2017 14:23	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2017 14:23	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/28/2017 14:23	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/28/2017 14:23	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 14:23	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 14:23	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 14:23	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 14:23	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 14:23	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:23	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 14:23	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989003** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-6A** Date Collected: 11/27/17 14:05

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	11/28/2017 14:23	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 14:23	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 14:23	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 14:23	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2017 14:23	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 14:23	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 14:23	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 14:23	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2017 14:23	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/28/2017 14:23	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/28/2017 14:23	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:23	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2017 14:23	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 14:23	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 14:23	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:23	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:23	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2017 14:23	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/28/2017 14:23	
Toluene-d8 (S)	**103**		**%**	**1**	77-119		11/28/2017 14:23	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		11/28/2017 14:23	
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	11/29/2017 16:18	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 16:18	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		11/29/2017 16:18	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/29/2017 16:18	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/29/2017 16:18	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**37**		**mg/L**	**1**	5.0	0.50	11/28/2017 18:30	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/28/2017 18:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.5**		**mg/L**	**10**	0.10	0.080	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989003** Date Received: 11/28/17 09:30 Matrix: Water
Sample ID: **17331-MW-6A** Date Collected: 11/27/17 14:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**250**		**mg/L**	**1**	10	10	11/29/2017 15:18	J

Lab ID: **J1711989004** Date Received: 11/28/17 09:30 Matrix: Water
Sample ID: **17331-MW-6B** Date Collected: 11/27/17 13:35

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**	10	9.0	12/4/2017 13:23	J
Barium	**51**		**ug/L**	**1**	2.0	0.83	12/4/2017 13:23	J
Beryllium	**0.41**	**I**	**ug/L**	**1**	0.80	0.40	12/4/2017 13:23	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/4/2017 13:23	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/4/2017 13:23	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/4/2017 13:23	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/4/2017 13:23	J
Iron	**1500**		**ug/L**	**1**	200	100	12/4/2017 13:23	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/4/2017 13:23	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/4/2017 13:23	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/4/2017 13:23	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/4/2017 13:23	J
Sodium	**9.3**		**mg/L**	**1**	0.70	0.34	12/4/2017 13:23	J
Vanadium	**1.3**		**ug/L**	**1**	1.0	0.55	12/4/2017 13:23	J
Zinc	**33**	**U**	**ug/L**	**1**	60	33	12/4/2017 13:23	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 18:07	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 18:07	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/5/2017 13:41	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989004** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-6B** Date Collected: 11/27/17 13:35

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 14:52	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 14:52	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:52	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 14:52	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2017 14:52	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:52	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 14:52	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:52	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 14:52	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:52	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 14:52	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2017 14:52	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/28/2017 14:52	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2017 14:52	J
Acetone	**2.7**	**I**	**ug/L**	**1**	5.0	2.1	11/28/2017 14:52	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2017 14:52	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 14:52	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2017 14:52	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/28/2017 14:52	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/28/2017 14:52	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 14:52	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 14:52	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 14:52	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 14:52	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 14:52	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:52	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 14:52	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 14:52	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 14:52	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 14:52	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 14:52	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2017 14:52	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 14:52	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 14:52	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 14:52	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2017 14:52	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989004** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-MW-6B** Date Collected: 11/27/17 13:35

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	11/28/2017 14:52	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/28/2017 14:52	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:52	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2017 14:52	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 14:52	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 14:52	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 14:52	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 14:52	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2017 14:52	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/28/2017 14:52	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/28/2017 14:52	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/28/2017 14:52	
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	11/29/2017 16:48	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 16:48	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/29/2017 16:48	
Toluene-d8 (S)	**106**		**%**	**1**	80-121		11/29/2017 16:48	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/29/2017 16:48	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**34**		**mg/L**	**1**	5.0	0.50	11/28/2017 18:51	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/28/2017 18:51	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.27**		**mg/L**	**1**	0.010	0.0080	12/6/2017 11:07	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**80**		**mg/L**	**1**	10	10	11/29/2017 15:18	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989005** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-TripBlank-9** Date Collected: 11/27/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 15:21	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 15:21	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 15:21	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 15:21	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/28/2017 15:21	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 15:21	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/28/2017 15:21	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 15:21	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 15:21	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 15:21	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/28/2017 15:21	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/28/2017 15:21	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/28/2017 15:21	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/28/2017 15:21	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/28/2017 15:21	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/28/2017 15:21	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 15:21	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/28/2017 15:21	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/28/2017 15:21	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/28/2017 15:21	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 15:21	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 15:21	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 15:21	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 15:21	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 15:21	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 15:21	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/28/2017 15:21	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/28/2017 15:21	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/28/2017 15:21	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 15:21	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 15:21	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/28/2017 15:21	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 15:21	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/28/2017 15:21	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/28/2017 15:21	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/28/2017 15:21	J

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ANALYTICAL RESULTS

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711989005** Date Received: 11/28/17 09:30 Matrix: Water

Sample ID: **17331-TripBlank-9** Date Collected: 11/27/17 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	11/28/2017 15:21	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/28/2017 15:21	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 15:21	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/28/2017 15:21	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/28/2017 15:21	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/28/2017 15:21	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/28/2017 15:21	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/28/2017 15:21	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/28/2017 15:21	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/28/2017 15:21	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/28/2017 15:21	
Bromofluorobenzene (S)	**106**		**%**	**1**	86-123		11/28/2017 15:21	
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	11/29/2017 17:24	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/29/2017 17:24	J
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	77-125		11/29/2017 17:24	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/29/2017 17:24	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/29/2017 17:24	

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Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS QUALIFIERS

Workorder: J1711989 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.

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: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5520 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004

METHOD BLANK: 2543261

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

QC Batch: DGMj/3854 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 11/29/2017 03:30
Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004

METHOD BLANK: 2543671

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: MSVj/5283 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/28/2017 09:31
Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004, J1711989005

METHOD BLANK: 2544152

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	0.24	0.24	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	0.21	0.21	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U

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QUALITY CONTROL DATA

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2544152

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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)	%	111	70-128	
Toluene-d8 (S)	%	110	77-119	
Bromofluorobenzene (S)	%	111	86-123	

QC Batch: DGMj/3862 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/30/2017 03:30

Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004

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QUALITY CONTROL DATA

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2544775

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.34	0.34	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: WCAj/5533 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004

METHOD BLANK: 2544779

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

QC Batch: MSVj/5293 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 11/29/2017 09:01

Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004, J1711989005

METHOD BLANK: 2545591

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)	%	102	77-125	

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QUALITY CONTROL DATA

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2545591

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Toluene-d8 (S)	%	111	80-121	
Bromofluorobenzene (S)	%	115	80-129	

QC Batch: DGMj/3886 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 12/05/2017 10:40
Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004

METHOD BLANK: 2549754

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

QC Batch: WCAg/6706 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1711989001, J1711989002, J1711989003, J1711989004

METHOD BLANK: 2553195

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

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1711989 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: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711989001	17331-MW-5A			SM 2540 C	WCAj/5520
J1711989002	17331-MW-5B			SM 2540 C	WCAj/5520
J1711989003	17331-MW-6A			SM 2540 C	WCAj/5520
J1711989004	17331-MW-6B			SM 2540 C	WCAj/5520
J1711989001	17331-MW-5A	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711989002	17331-MW-5B	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711989003	17331-MW-6A	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711989004	17331-MW-6B	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711989001	17331-MW-5A	SW-846 5030B	MSVj/5283	SW-846 8260B	MSVj/5284
J1711989002	17331-MW-5B	SW-846 5030B	MSVj/5283	SW-846 8260B	MSVj/5284
J1711989003	17331-MW-6A	SW-846 5030B	MSVj/5283	SW-846 8260B	MSVj/5284
J1711989004	17331-MW-6B	SW-846 5030B	MSVj/5283	SW-846 8260B	MSVj/5284
J1711989005	17331-TripBlank-9	SW-846 5030B	MSVj/5283	SW-846 8260B	MSVj/5284
J1711989001	17331-MW-5A	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1711989002	17331-MW-5B	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1711989003	17331-MW-6A	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1711989004	17331-MW-6B	SW-846 3010A	DGMj/3862	SW-846 6010	ICPj/2399
J1711989001	17331-MW-5A			EPA 300.0	WCAj/5533
J1711989002	17331-MW-5B			EPA 300.0	WCAj/5533
J1711989003	17331-MW-6A			EPA 300.0	WCAj/5533
J1711989004	17331-MW-6B			EPA 300.0	WCAj/5533
J1711989001	17331-MW-5A	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1711989002	17331-MW-5B	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1711989003	17331-MW-6A	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1711989004	17331-MW-6B	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1711989005	17331-TripBlank-9	SW-846 5030B	MSVj/5293	SW-846 8260B (SIM)	MSVj/5294
J1711989001	17331-MW-5A	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711989 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711989002	17331-MW-5B	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1711989003	17331-MW-6A	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1711989004	17331-MW-6B	SW-846 7470A	DGMj/3886	SW-846 7470A	CVAj/1669
J1711989001	17331-MW-5A			EPA 350.1	WCAg/6706
J1711989002	17331-MW-5B			EPA 350.1	WCAg/6706
J1711989003	17331-MW-6A			EPA 350.1	WCAg/6706
J1711989004	17331-MW-6B			EPA 350.1	WCAg/6706

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☐ 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 • 813.630.

J1711989

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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	PRESERVATION
17331-MW-5A		G	11.27.17	1540	GW	6	
17331-MW-5B		G	11.27.17	1500	GW	6	
17331-MW-6A		G	11.27.17	1405	GW	6	
17331-MW-6B		G	11.27.17	1335	GW	6	
17331-Trip Blk-9		G	11.27.17	0000	DI H2O	1	

ANALYSIS REQUIRED

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								
PRESERVATION	HCL	HNO3	Ice	H2SO4								
	3	1	1	1								001
	3	1	1	1								002
	3	1	1	1								003
	3	1	1	1								004
	1											

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	Joe Terry	11.27.17	1700	Fedex		
2	Fedex	11-28	0930	Supvr	11-28	0930
3						
4						

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

Thursday, December 07, 2017 11:02:12 AM

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D Landfill

Date/Time Rcvd: 11-28-17 9:30 Log-In request number: J1711989

Received by: SC 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

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December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1711863 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, November 22, 2017. 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: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1711863001	17325-MW-7A	Water	11/21/2017 09:35	11/22/2017 09:30
J1711863002	17325-MW-7B	Water	11/21/2017 09:05	11/22/2017 09:30
J1711863003	17325-MW-8A	Water	11/21/2017 08:15	11/22/2017 09:30
J1711863004	17325-MW-8B	Water	11/21/2017 07:45	11/22/2017 09:30
J1711863005	17325-MW-9A	Water	11/21/2017 06:55	11/22/2017 09:30
J1711863006	17325-MW-9B	Water	11/21/2017 06:25	11/22/2017 09:30
J1711863007	17325-TripBlank-8	Water	11/21/2017 00:00	11/22/2017 09:30

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863001** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-7A** Date Collected: 11/21/17 09:35

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**	10	9.0	11/30/2017 10:08	J
Barium	**9.6**		**ug/L**	**1**	2.0	0.83	11/30/2017 10:08	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 10:08	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 10:08	J
Chromium	**2.6**	**I**	**ug/L**	**1**	3.0	1.6	11/30/2017 10:08	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 10:08	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 10:08	J
Iron	**6900**		**ug/L**	**1**	200	100	11/30/2017 10:08	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 10:08	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 10:08	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 10:08	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 10:08	J
Sodium	**14**		**mg/L**	**1**	0.70	0.34	11/30/2017 10:08	J
Vanadium	**3.7**		**ug/L**	**1**	1.0	0.55	11/30/2017 10:08	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 10:08	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:10	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:10	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U,J4**	**ug/L**	**1**	0.10	0.021	12/1/2017 13:19	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 12:26	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 12:26	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:26	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 12:26	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 12:26	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:26	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 12:26	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863001** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-7A** Date Collected: 11/21/17 09:35

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	11/27/2017 12:26	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 12:26	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:26	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 12:26	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 12:26	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 12:26	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 12:26	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2017 12:26	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 12:26	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 12:26	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 12:26	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 12:26	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 12:26	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 12:26	J
Carbon Disulfide	**0.35**	**I**	**ug/L**	**1**	1.0	0.21	11/27/2017 12:26	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 12:26	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 12:26	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 12:26	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:26	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 12:26	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 12:26	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 12:26	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 12:26	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 12:26	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 12:26	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 12:26	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 12:26	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 12:26	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 12:26	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2017 12:26	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 12:26	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:26	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 12:26	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 12:26	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 12:26	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:26	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:26	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 12:26	J
1,2-Dichloroethane-d4 (S)	**105**		**%**	**1**	70-128		11/27/2017 12:26	
Toluene-d8 (S)	**108**		**%**	**1**	77-119		11/27/2017 12:26	

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863001** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-7A** Date Collected: 11/21/17 09:35

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/27/2017 12:26	
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	11/27/2017 12:26	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 12:26	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		11/27/2017 12:26	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/27/2017 12:26	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/27/2017 12:26	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**29**		**mg/L**	**1**	5.0	0.50	11/22/2017 13:37	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2017 13:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.6**		**mg/L**	**20**	0.20	0.16	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**120**		**mg/L**	**1**	10	10	11/27/2017 12:04	J

Lab ID: **J1711863002** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-7B** Date Collected: 11/21/17 09:05

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**	10	9.0	11/30/2017 10:11	J
Barium	**30**		**ug/L**	**1**	2.0	0.83	11/30/2017 10:11	J
Beryllium	**0.94**		**ug/L**	**1**	0.80	0.40	11/30/2017 10:11	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 10:11	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 10:11	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863002** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-7B** Date Collected: 11/21/17 09:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**3.6**	**I**	**ug/L**	**1**	4.0	1.9	11/30/2017 10:11	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 10:11	J
Iron	**20000**		**ug/L**	**1**	200	100	11/30/2017 10:11	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 10:11	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 10:11	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 10:11	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 10:11	J
Sodium	**14**		**mg/L**	**1**	0.70	0.34	11/30/2017 10:11	J
Vanadium	**2.2**		**ug/L**	**1**	1.0	0.55	11/30/2017 10:11	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 10:11	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.051**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:26	J
Thallium	**0.093**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:26	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/1/2017 13:38	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 12:56	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 12:56	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:56	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 12:56	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 12:56	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:56	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 12:56	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:56	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 12:56	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:56	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 12:56	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 12:56	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 12:56	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 12:56	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2017 12:56	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 12:56	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863002** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-7B** Date Collected: 11/21/17 09:05

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	11/27/2017 12:56	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 12:56	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 12:56	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 12:56	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 12:56	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 12:56	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 12:56	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 12:56	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 12:56	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:56	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 12:56	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 12:56	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 12:56	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 12:56	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 12:56	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 12:56	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 12:56	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 12:56	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 12:56	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 12:56	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2017 12:56	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 12:56	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:56	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 12:56	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 12:56	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 12:56	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 12:56	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 12:56	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 12:56	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/27/2017 12:56	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/27/2017 12:56	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/27/2017 12:56	
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	11/27/2017 12:56	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 12:56	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/27/2017 12:56	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/27/2017 12:56	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/27/2017 12:56	

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863002** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-7B** Date Collected: 11/21/17 09:05

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	**21**		**mg/L**	**1**	5.0	0.50	11/22/2017 13:58	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2017 13:58	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.0**		**mg/L**	**5**	0.050	0.040	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**520**		**mg/L**	**1**	10	10	11/27/2017 12:04	J

Lab ID: **J1711863003** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-8A** Date Collected: 11/21/17 08:15

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**	10	9.0	11/30/2017 10:13	J
Barium	**43**		**ug/L**	**1**	2.0	0.83	11/30/2017 10:13	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 10:13	J
Cadmium	**0.64**	**I**	**ug/L**	**1**	1.0	0.45	11/30/2017 10:13	J
Chromium	**1.8**	**I**	**ug/L**	**1**	3.0	1.6	11/30/2017 10:13	J
Cobalt	**3.0**	**I**	**ug/L**	**1**	4.0	1.9	11/30/2017 10:13	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 10:13	J
Iron	**8800**		**ug/L**	**1**	200	100	11/30/2017 10:13	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 10:13	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 10:13	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 10:13	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 10:13	J
Sodium	**5.6**		**mg/L**	**1**	0.70	0.34	11/30/2017 10:13	J
Vanadium	**5.4**		**ug/L**	**1**	1.0	0.55	11/30/2017 10:13	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 10:13	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863003** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-8A** Date Collected: 11/21/17 08:15

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	**0.098**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:30	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:30	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/1/2017 13:41	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 14:01	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 14:01	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:01	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 14:01	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 14:01	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:01	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 14:01	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:01	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 14:01	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:01	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 14:01	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 14:01	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 14:01	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 14:01	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2017 14:01	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 14:01	J
Benzene	**2.5**		**ug/L**	**1**	1.0	0.16	11/27/2017 14:01	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 14:01	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 14:01	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 14:01	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 14:01	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 14:01	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 14:01	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 14:01	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 14:01	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:01	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 14:01	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863003** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-8A** Date Collected: 11/21/17 08:15

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	11/27/2017 14:01	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 14:01	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 14:01	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 14:01	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 14:01	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 14:01	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 14:01	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 14:01	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 14:01	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2017 14:01	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 14:01	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:01	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 14:01	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 14:01	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 14:01	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:01	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:01	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 14:01	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/27/2017 14:01	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/27/2017 14:01	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/27/2017 14:01	
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**	**ug/L**	**1**	0.20	0.11	11/27/2017 14:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 14:04	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/27/2017 14:04	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/27/2017 14:04	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/27/2017 14:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**13**	**I**	**mg/L**	**10**	50	5.0	11/22/2017 14:19	J
Nitrate	**0.50**	**U**	**mg/L**	**10**	5.0	0.50	11/22/2017 14:19	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.3**		**mg/L**	**5**	0.050	0.040	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863003** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-8A** Date Collected: 11/21/17 08:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1400**		**mg/L**	**1**	10	10	11/27/2017 12:04	J

Lab ID: **J1711863004** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-8B** Date Collected: 11/21/17 07:45

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**	10	9.0	11/30/2017 10:16	J
Barium	**62**		**ug/L**	**1**	2.0	0.83	11/30/2017 10:16	J
Beryllium	**0.72**	**I**	**ug/L**	**1**	0.80	0.40	11/30/2017 10:16	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 10:16	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 10:16	J
Cobalt	**7.7**		**ug/L**	**1**	4.0	1.9	11/30/2017 10:16	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 10:16	J
Iron	**41000**		**ug/L**	**1**	200	100	11/30/2017 10:16	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 10:16	J
Nickel	**6.4**	**I**	**ug/L**	**1**	10	6.0	11/30/2017 10:16	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 10:16	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 10:16	J
Sodium	**31**		**mg/L**	**1**	0.70	0.34	11/30/2017 10:16	J
Vanadium	**3.9**		**ug/L**	**1**	1.0	0.55	11/30/2017 10:16	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 10:16	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.053**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:34	J
Thallium	**0.071**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:34	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/1/2017 13:50	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863004** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-8B** Date Collected: 11/21/17 07:45

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 14:37	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 14:37	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:37	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 14:37	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 14:37	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:37	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 14:37	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:37	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 14:37	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:37	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 14:37	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 14:37	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 14:37	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 14:37	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2017 14:37	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 14:37	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 14:37	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 14:37	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 14:37	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 14:37	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 14:37	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 14:37	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 14:37	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 14:37	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 14:37	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:37	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 14:37	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 14:37	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 14:37	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 14:37	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 14:37	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 14:37	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 14:37	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 14:37	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 14:37	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 14:37	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863004** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-8B** Date Collected: 11/21/17 07:45

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	11/27/2017 14:37	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 14:37	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:37	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 14:37	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 14:37	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 14:37	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 14:37	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 14:37	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 14:37	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/27/2017 14:37	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/27/2017 14:37	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/27/2017 14:37	
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	11/27/2017 14:37	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 14:37	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/27/2017 14:37	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/27/2017 14:37	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/27/2017 14:37	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**42**		**mg/L**	**2**	10	1.0	11/22/2017 14:40	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/22/2017 14:40	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.1**		**mg/L**	**1**	0.010	0.0080	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**900**		**mg/L**	**1**	10	10	11/27/2017 12:04	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863005** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-9A** Date Collected: 11/21/17 06:55

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**	10	9.0	11/30/2017 10:19	J
Barium	**9.3**		**ug/L**	**1**	2.0	0.83	11/30/2017 10:19	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 10:19	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 10:19	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 10:19	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 10:19	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 10:19	J
Iron	**1000**		**ug/L**	**1**	200	100	11/30/2017 10:19	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 10:19	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 10:19	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 10:19	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 10:19	J
Sodium	**13**		**mg/L**	**1**	0.70	0.34	11/30/2017 10:19	J
Vanadium	**0.80**	**I**	**ug/L**	**1**	1.0	0.55	11/30/2017 10:19	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 10:19	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:38	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:38	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/1/2017 13:53	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 15:07	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 15:07	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:07	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 15:07	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 15:07	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:07	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 15:07	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863005**
Sample ID: **17325-MW-9A**

Date Received: 11/22/17 09:30 Matrix: Water
Date Collected: 11/21/17 06:55

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	11/27/2017 15:07	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 15:07	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:07	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 15:07	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 15:07	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 15:07	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 15:07	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2017 15:07	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 15:07	J
Benzene	**9.1**		**ug/L**	**1**	1.0	0.16	11/27/2017 15:07	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 15:07	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 15:07	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 15:07	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 15:07	J
Carbon Disulfide	**0.37**	**I**	**ug/L**	**1**	1.0	0.21	11/27/2017 15:07	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 15:07	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 15:07	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 15:07	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:07	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 15:07	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 15:07	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 15:07	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 15:07	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 15:07	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 15:07	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 15:07	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 15:07	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 15:07	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 15:07	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2017 15:07	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 15:07	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:07	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 15:07	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 15:07	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 15:07	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:07	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:07	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 15:07	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/27/2017 15:07	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/27/2017 15:07	

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863005** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-9A** Date Collected: 11/21/17 06:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/27/2017 15:07	
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**	**ug/L**	**1**	0.20	0.11	11/27/2017 15:07	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 15:07	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/27/2017 15:07	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/27/2017 15:07	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/27/2017 15:07	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**10**		**mg/L**	**1**	5.0	0.50	11/22/2017 15:01	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/22/2017 15:01	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.8**		**mg/L**	**10**	0.10	0.080	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**160**	**J4**	**mg/L**	**1**	10	10	11/27/2017 12:04	J

Lab ID: **J1711863006** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-9B** Date Collected: 11/21/17 06:25

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**	10	9.0	11/30/2017 10:22	J
Barium	**47**		**ug/L**	**1**	2.0	0.83	11/30/2017 10:22	J
Beryllium	**0.83**		**ug/L**	**1**	0.80	0.40	11/30/2017 10:22	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 10:22	J
Chromium	**2.0**	**I**	**ug/L**	**1**	3.0	1.6	11/30/2017 10:22	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863006** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-9B** Date Collected: 11/21/17 06:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**3.5**	**I**	**ug/L**	**1**	4.0	1.9	11/30/2017 10:22	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 10:22	J
Iron	**11000**		**ug/L**	**1**	200	100	11/30/2017 10:22	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 10:22	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 10:22	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 10:22	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 10:22	J
Sodium	**27**		**mg/L**	**1**	0.70	0.34	11/30/2017 10:22	J
Vanadium	**3.7**		**ug/L**	**1**	1.0	0.55	11/30/2017 10:22	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 10:22	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 17:42	J
Thallium	**0.063**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 17:42	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	12/1/2017 13:56	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 15:43	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 15:43	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:43	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 15:43	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 15:43	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:43	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 15:43	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:43	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 15:43	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:43	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 15:43	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 15:43	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 15:43	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 15:43	J
Acetone	**2.6**	**I**	**ug/L**	**1**	5.0	2.1	11/27/2017 15:43	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 15:43	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863006** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-MW-9B** Date Collected: 11/21/17 06:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**0.37**	**I**	**ug/L**	**1**	1.0	0.16	11/27/2017 15:43	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 15:43	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 15:43	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 15:43	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 15:43	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 15:43	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 15:43	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 15:43	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 15:43	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:43	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 15:43	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 15:43	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 15:43	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 15:43	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 15:43	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 15:43	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 15:43	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 15:43	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 15:43	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 15:43	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2017 15:43	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 15:43	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:43	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 15:43	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 15:43	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 15:43	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 15:43	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 15:43	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 15:43	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/27/2017 15:43	
Toluene-d8 (S)	**103**		**%**	**1**	77-119		11/27/2017 15:43	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		11/27/2017 15:43	
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**	**ug/L**	**1**	0.20	0.11	11/27/2017 15:43	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 15:43	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/27/2017 15:43	
Toluene-d8 (S)	**106**		**%**	**1**	80-121		11/27/2017 15:43	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/27/2017 15:43	

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863006** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-MW-9B** Date Collected: 11/21/17 06:25

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	**54**		**mg/L**	**1**	5.0	0.50	11/22/2017 15:22	J
Nitrate	**0.056**	**I**	**mg/L**	**1**	0.50	0.050	11/22/2017 15:22	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.3**		**mg/L**	**2**	0.020	0.016	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**370**		**mg/L**	**1**	10	10	11/27/2017 12:04	J

Lab ID: **J1711863007** Date Received: 11/22/17 09:30 Matrix: Water
Sample ID: **17325-TripBlank-8** Date Collected: 11/21/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 16:12	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 16:12	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 16:12	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 16:12	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/27/2017 16:12	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 16:12	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/27/2017 16:12	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 16:12	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 16:12	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 16:12	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/27/2017 16:12	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/27/2017 16:12	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/27/2017 16:12	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/27/2017 16:12	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/27/2017 16:12	J

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863007** Date Received: 11/22/17 09:30 Matrix: Water

Sample ID: **17325-TripBlank-8** Date Collected: 11/21/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/27/2017 16:12	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 16:12	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/27/2017 16:12	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/27/2017 16:12	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/27/2017 16:12	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 16:12	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 16:12	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 16:12	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 16:12	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 16:12	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 16:12	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/27/2017 16:12	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/27/2017 16:12	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/27/2017 16:12	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 16:12	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 16:12	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/27/2017 16:12	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 16:12	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/27/2017 16:12	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/27/2017 16:12	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/27/2017 16:12	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/27/2017 16:12	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/27/2017 16:12	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 16:12	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/27/2017 16:12	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/27/2017 16:12	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/27/2017 16:12	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/27/2017 16:12	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/27/2017 16:12	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/27/2017 16:12	J
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	70-128		11/27/2017 16:12	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/27/2017 16:12	
Bromofluorobenzene (S)	**109**		**%**	**1**	86-123		11/27/2017 16:12	
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	11/27/2017 16:12	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/27/2017 16:12	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/27/2017 16:12	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/27/2017 16:12	

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ANALYTICAL RESULTS

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711863007**
Sample ID: **17325-TripBlank-8**

Date Received: 11/22/17 09:30 Matrix: Water
Date Collected: 11/21/17 00:00

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**107**		**%**	**1**	80-129		11/27/2017 16:12	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1711863 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: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/3844 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 11/28/2017 03:30
Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006

METHOD BLANK: 2541589

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.34	0.34	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: WCAj/5508 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006

METHOD BLANK: 2541655

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

QC Batch: WCAj/5510 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006

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QUALITY CONTROL DATA

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2542340

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

QC Batch: MSVj/5275 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 11/27/2017 09:39

Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006, J1711863007

METHOD BLANK: 2542852

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	0.24	0.24	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	0.21	0.21	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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U

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QUALITY CONTROL DATA

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2542852

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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)	%	111	70-128	
Toluene-d8 (S)	%	104	77-119	
Bromofluorobenzene (S)	%	113	86-123	

QC Batch: MSVj/5277 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 11/27/2017 07:39

Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006, J1711863007

METHOD BLANK: 2542860

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)	%	99	77-125	
Toluene-d8 (S)	%	107	80-121	
Bromofluorobenzene (S)	%	112	80-129	

QC Batch: DGMj/3854 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 11/29/2017 03:30

Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006

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QUALITY CONTROL DATA

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2543671

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: DGMj/3874 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 12/01/2017 09:40

Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006

METHOD BLANK: 2546835

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.021	0.021	U

QC Batch: WCAg/6693 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: J1711863001, J1711863002, J1711863003, J1711863004, J1711863005, J1711863006

METHOD BLANK: 2551320

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 CROSS REFERENCE TABLE

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711863001	17325-MW-7A	SW-846 3010A	DGMj/3844	SW-846 6010	ICPj/2391
J1711863002	17325-MW-7B	SW-846 3010A	DGMj/3844	SW-846 6010	ICPj/2391
J1711863003	17325-MW-8A	SW-846 3010A	DGMj/3844	SW-846 6010	ICPj/2391
J1711863004	17325-MW-8B	SW-846 3010A	DGMj/3844	SW-846 6010	ICPj/2391
J1711863005	17325-MW-9A	SW-846 3010A	DGMj/3844	SW-846 6010	ICPj/2391
J1711863006	17325-MW-9B	SW-846 3010A	DGMj/3844	SW-846 6010	ICPj/2391
J1711863001	17325-MW-7A			SM 2540 C	WCAj/5508
J1711863002	17325-MW-7B			SM 2540 C	WCAj/5508
J1711863003	17325-MW-8A			SM 2540 C	WCAj/5508
J1711863004	17325-MW-8B			SM 2540 C	WCAj/5508
J1711863005	17325-MW-9A			SM 2540 C	WCAj/5508
J1711863006	17325-MW-9B			SM 2540 C	WCAj/5508
J1711863001	17325-MW-7A			EPA 300.0	WCAj/5510
J1711863002	17325-MW-7B			EPA 300.0	WCAj/5510
J1711863003	17325-MW-8A			EPA 300.0	WCAj/5510
J1711863004	17325-MW-8B			EPA 300.0	WCAj/5510
J1711863005	17325-MW-9A			EPA 300.0	WCAj/5510
J1711863006	17325-MW-9B			EPA 300.0	WCAj/5510
J1711863001	17325-MW-7A	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863002	17325-MW-7B	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863003	17325-MW-8A	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863004	17325-MW-8B	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863005	17325-MW-9A	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863006	17325-MW-9B	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863007	17325-TripBlank-8	SW-846 5030B	MSVj/5275	SW-846 8260B	MSVj/5276
J1711863001	17325-MW-7A	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278
J1711863002	17325-MW-7B	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278
J1711863003	17325-MW-8A	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278
J1711863004	17325-MW-8B	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711863 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711863005	17325-MW-9A	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278
J1711863006	17325-MW-9B	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278
J1711863007	17325-TripBlank-8	SW-846 5030B	MSVj/5277	SW-846 8260B (SIM)	MSVj/5278
J1711863001	17325-MW-7A	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711863002	17325-MW-7B	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711863003	17325-MW-8A	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711863004	17325-MW-8B	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711863005	17325-MW-9A	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711863006	17325-MW-9B	SW-846 3010A	DGMj/3854	SW-846 6020	ICMj/1802
J1711863001	17325-MW-7A	SW-846 7470A	DGMj/3874	SW-846 7470A	CVAj/1666
J1711863002	17325-MW-7B	SW-846 7470A	DGMj/3874	SW-846 7470A	CVAj/1666
J1711863003	17325-MW-8A	SW-846 7470A	DGMj/3874	SW-846 7470A	CVAj/1666
J1711863004	17325-MW-8B	SW-846 7470A	DGMj/3874	SW-846 7470A	CVAj/1666
J1711863005	17325-MW-9A	SW-846 7470A	DGMj/3874	SW-846 7470A	CVAj/1666
J1711863006	17325-MW-9B	SW-846 7470A	DGMj/3874	SW-846 7470A	CVAj/1666
J1711863001	17325-MW-7A			EPA 350.1	WCAg/6693
J1711863002	17325-MW-7B			EPA 350.1	WCAg/6693
J1711863003	17325-MW-8A			EPA 350.1	WCAg/6693
J1711863004	17325-MW-8B			EPA 350.1	WCAg/6693
J1711863005	17325-MW-9A			EPA 350.1	WCAg/6693
J1711863006	17325-MW-9B			EPA 350.1	WCAg/6693

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☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee,
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4527

J1711863

137.1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-399-1076
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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 SW DF
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							
17325-MW-7A		G	11.21.17	0935	GW	6		3	1	1	1							001
17325-MW-7B		G	11.21.17	0905	GW	6		3	1	1	1							002
17325-MW-8A		G	11.21.17	0815	GW	6		3	1	1	1							003
17325-MW-8B		G	11.21.17	0745	GW	6		3	1	1	1							004
17325-MW-9A		G	11.21.17	0655	GW	6		3	1	1	1							005
17325-MW-9B		G	11.21.17	0625	GW	6		3	1	1	1							006
17325-Trip Blank-8		G	11.21.17	0000	DI H2O	3		3										007

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	Joe Terry	11.21.17	1145	Fedex		
2	Fedex	11-22	930		11.22	930
3						
4						

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

Wednesday, December 06, 2017 10:05:49 AM
Page 29 of 30

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D. Landfill

Date/Time Rcvd: 11-22-17 9:30 Log-In request number: J1711863

Received by: SC 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.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711863

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 recovery of ɑercury for J1711863001 was outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and %RPD were acceptable, which indicates the analytical batch was in control. Results I·NŜ qualified.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

Advanced Environmental Laboratories, Inc.

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Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711863

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: SM 2540 C

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: RPD outside method criteria, but within laboratory generated limits.

D. Spikes: All acceptance criteria were met.

E. Serial Diluion:

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

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December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1711803 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 Tuesday, November 21, 2017. 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: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1711803001	17324-MW-16AR	Water	11/20/2017 06:40	11/21/2017 09:15
J1711803002	17324-MW-16BR	Water	11/20/2017 06:15	11/21/2017 09:15
J1711803003	17324-MW-13A	Water	11/20/2017 08:15	11/21/2017 09:15
J1711803004	17324-MW-13B	Water	11/20/2017 07:50	11/21/2017 09:15
J1711803005	17324-MW-12A	Water	11/20/2017 09:50	11/21/2017 09:15
J1711803006	17324-MW-12B	Water	11/20/2017 09:25	11/21/2017 09:15
J1711803007	17324-DUP-2	Water	11/20/2017 12:00	11/21/2017 09:15
J1711803008	17324-TripBlank-6	Water	11/20/2017 00:00	11/21/2017 09:15
J1711803009	17324-MW-10A	Water	11/20/2017 12:55	11/21/2017 09:15
J1711803010	17324-MW-10B	Water	11/20/2017 12:15	11/21/2017 09:15
J1711803011	17324-MW-11A	Water	11/20/2017 11:20	11/21/2017 09:15
J1711803012	17324-MW-11B	Water	11/20/2017 10:50	11/21/2017 09:15
J1711803013	17324-TripBlank-7	Water	11/20/2017 00:00	11/21/2017 09:15

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803001** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-16AR** Date Collected: 11/20/17 06:40

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**	10	9.0	12/1/2017 11:53	J
Barium	**35**		**ug/L**	**1**	2.0	0.83	12/1/2017 11:53	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 11:53	J
Cadmium	**1.1**		**ug/L**	**1**	1.0	0.45	12/1/2017 11:53	J
Chromium	**2.0**	**I**	**ug/L**	**1**	3.0	1.6	12/1/2017 11:53	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 11:53	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 11:53	J
Iron	**220**		**ug/L**	**1**	200	100	12/1/2017 11:53	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 11:53	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 11:53	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 11:53	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 11:53	J
Sodium	**160**		**mg/L**	**1**	0.70	0.34	12/1/2017 11:53	J
Vanadium	**10**		**ug/L**	**1**	1.0	0.55	12/1/2017 11:53	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 11:53	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**2.4**		**ug/L**	**1**	0.70	0.046	11/30/2017 21:05	J
Thallium	**0.066**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:05	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 15:45	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 16:42	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 16:42	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 16:42	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 16:42	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 16:42	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 16:42	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 16:42	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803001** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-16AR** Date Collected: 11/20/17 06:40

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	11/21/2017 16:42	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 16:42	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 16:42	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 16:42	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 16:42	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 16:42	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 16:42	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 16:42	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 16:42	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 16:42	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 16:42	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 16:42	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 16:42	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 16:42	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 16:42	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 16:42	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 16:42	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 16:42	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 16:42	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 16:42	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 16:42	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 16:42	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 16:42	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 16:42	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 16:42	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 16:42	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 16:42	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 16:42	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 16:42	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 16:42	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 16:42	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 16:42	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 16:42	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 16:42	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 16:42	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 16:42	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 16:42	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 16:42	J
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	70-128		11/21/2017 16:42	
Toluene-d8 (S)	**102**		**%**	**1**	77-119		11/21/2017 16:42	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803001** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-16AR** Date Collected: 11/20/17 06:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		11/21/2017 16:42	
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	11/21/2017 16:42	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 16:42	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/21/2017 16:42	
Toluene-d8 (S)	**105**		**%**	**1**	80-121		11/21/2017 16:42	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		11/21/2017 16:42	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**380**		**mg/L**	**10**	50	5.0	11/21/2017 16:01	J
Nitrate	**6.7**		**mg/L**	**10**	5.0	0.50	11/21/2017 16:01	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.0**		**mg/L**	**5**	0.050	0.040	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803002** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-16BR** Date Collected: 11/20/17 06:15

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**	10	9.0	12/1/2017 11:56	J
Barium	**29**		**ug/L**	**1**	2.0	0.83	12/1/2017 11:56	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 11:56	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 11:56	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 11:56	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803002** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-16BR** Date Collected: 11/20/17 06:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 11:56	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 11:56	J
Iron	**1900**		**ug/L**	**1**	200	100	12/1/2017 11:56	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 11:56	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 11:56	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 11:56	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 11:56	J
Sodium	**6.5**		**mg/L**	**1**	0.70	0.34	12/1/2017 11:56	J
Vanadium	**0.73**	**I**	**ug/L**	**1**	1.0	0.55	12/1/2017 11:56	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 11:56	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:21	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:21	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 15:49	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 17:18	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 17:18	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:18	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 17:18	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 17:18	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:18	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 17:18	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:18	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 17:18	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:18	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 17:18	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 17:18	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 17:18	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 17:18	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 17:18	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 17:18	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803002** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-16BR** Date Collected: 11/20/17 06:15

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	11/21/2017 17:18	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 17:18	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 17:18	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 17:18	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 17:18	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 17:18	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 17:18	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 17:18	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 17:18	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:18	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 17:18	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 17:18	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 17:18	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 17:18	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 17:18	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 17:18	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 17:18	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 17:18	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 17:18	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 17:18	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 17:18	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 17:18	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:18	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 17:18	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 17:18	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 17:18	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:18	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:18	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 17:18	J
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	70-128		11/21/2017 17:18	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/21/2017 17:18	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/21/2017 17:18	
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	11/21/2017 17:18	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 17:18	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/21/2017 17:18	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/21/2017 17:18	
Bromofluorobenzene (S)	**107**		**%**	**1**	80-129		11/21/2017 17:18	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803002** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-16BR** Date Collected: 11/20/17 06:15

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**	**1**	5.0	0.50	11/21/2017 17:37	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2017 17:37	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.27**		**mg/L**	**1**	0.010	0.0080	12/5/2017 12:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**52**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803003** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-13A** Date Collected: 11/20/17 08:15

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**	10	9.0	12/1/2017 11:59	J
Barium	**83**		**ug/L**	**1**	2.0	0.83	12/1/2017 11:59	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 11:59	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 11:59	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 11:59	J
Cobalt	**2.2**	**I**	**ug/L**	**1**	4.0	1.9	12/1/2017 11:59	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 11:59	J
Iron	**7100**		**ug/L**	**1**	200	100	12/1/2017 11:59	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 11:59	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 11:59	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 11:59	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 11:59	J
Sodium	**66**		**mg/L**	**1**	0.70	0.34	12/1/2017 11:59	J
Vanadium	**5.2**		**ug/L**	**1**	1.0	0.55	12/1/2017 11:59	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 11:59	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803003** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-13A** Date Collected: 11/20/17 08:15

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	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:25	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:25	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 15:52	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 17:47	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 17:47	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:47	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 17:47	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 17:47	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:47	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 17:47	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:47	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 17:47	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:47	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 17:47	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 17:47	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 17:47	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 17:47	J
Acetone	**7.2**		**ug/L**	**1**	5.0	2.1	11/21/2017 17:47	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 17:47	J
Benzene	**7.2**		**ug/L**	**1**	1.0	0.16	11/21/2017 17:47	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 17:47	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 17:47	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 17:47	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 17:47	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 17:47	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 17:47	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 17:47	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 17:47	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:47	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 17:47	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803003** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-13A** Date Collected: 11/20/17 08:15

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	11/21/2017 17:47	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 17:47	J
Ethylbenzene	**0.93**	**I**	**ug/L**	**1**	1.0	0.24	11/21/2017 17:47	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 17:47	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 17:47	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 17:47	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 17:47	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 17:47	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 17:47	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 17:47	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 17:47	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:47	J
Xylene (Total)	**2.1**		**ug/L**	**1**	2.0	0.53	11/21/2017 17:47	J
cis-1,2-Dichloroethylene	**0.82**	**I**	**ug/L**	**1**	1.0	0.24	11/21/2017 17:47	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 17:47	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 17:47	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 17:47	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 17:47	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/21/2017 17:47	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/21/2017 17:47	
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		11/21/2017 17:47	
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	11/21/2017 17:47	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 17:47	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/21/2017 17:47	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/21/2017 17:47	
Bromofluorobenzene (S)	**113**		**%**	**1**	80-129		11/21/2017 17:47	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**170**		**mg/L**	**1**	5.0	0.50	11/21/2017 18:20	J
Nitrate	**0.30**	**I**	**mg/L**	**1**	0.50	0.050	11/21/2017 18:20	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.2**		**mg/L**	**5**	0.050	0.040	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803003** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-13A** Date Collected: 11/20/17 08:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**360**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803004** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-13B** Date Collected: 11/20/17 07:50

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**	10	9.0	12/1/2017 12:02	J
Barium	**14**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:02	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:02	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:02	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:02	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:02	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:02	J
Iron	**1100**		**ug/L**	**1**	200	100	12/1/2017 12:02	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:02	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:02	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:02	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:02	J
Sodium	**9.4**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:02	J
Vanadium	**0.74**	**I**	**ug/L**	**1**	1.0	0.55	12/1/2017 12:02	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:02	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:29	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:29	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 15:55	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803004** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-13B** Date Collected: 11/20/17 07:50

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 18:24	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 18:24	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:24	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 18:24	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 18:24	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:24	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 18:24	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:24	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 18:24	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:24	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 18:24	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 18:24	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 18:24	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 18:24	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 18:24	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 18:24	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 18:24	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 18:24	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 18:24	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 18:24	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 18:24	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 18:24	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 18:24	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 18:24	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 18:24	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:24	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 18:24	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 18:24	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 18:24	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 18:24	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 18:24	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 18:24	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 18:24	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 18:24	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 18:24	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 18:24	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803004** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-13B** Date Collected: 11/20/17 07:50

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	11/21/2017 18:24	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 18:24	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:24	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 18:24	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 18:24	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 18:24	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:24	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:24	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 18:24	J
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	70-128		11/21/2017 18:24	
Toluene-d8 (S)	**103**		**%**	**1**	77-119		11/21/2017 18:24	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/21/2017 18:24	
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	11/21/2017 18:24	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 18:24	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/21/2017 18:24	
Toluene-d8 (S)	**106**		**%**	**1**	80-121		11/21/2017 18:24	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/21/2017 18:24	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**23**		**mg/L**	**1**	5.0	0.50	11/21/2017 18:41	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2017 18:41	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.17**		**mg/L**	**1**	0.010	0.0080	12/5/2017 12:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**58**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803005** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-12A** Date Collected: 11/20/17 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**	10	9.0	12/1/2017 12:04	J
Barium	**67**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:04	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:04	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:04	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:04	J
Cobalt	**2.3**	**I**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:04	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:04	J
Iron	**4500**		**ug/L**	**1**	200	100	12/1/2017 12:04	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:04	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:04	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:04	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:04	J
Sodium	**32**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:04	J
Vanadium	**2.4**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:04	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.068**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:32	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:32	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 15:58	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 18:53	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 18:53	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:53	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 18:53	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 18:53	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:53	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 18:53	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803005** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-12A** Date Collected: 11/20/17 09:50

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	11/21/2017 18:53	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 18:53	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:53	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 18:53	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 18:53	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 18:53	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 18:53	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 18:53	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 18:53	J
Benzene	**7.5**		**ug/L**	**1**	1.0	0.16	11/21/2017 18:53	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 18:53	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 18:53	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 18:53	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 18:53	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 18:53	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 18:53	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 18:53	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 18:53	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:53	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 18:53	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 18:53	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 18:53	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 18:53	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 18:53	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 18:53	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 18:53	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 18:53	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 18:53	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 18:53	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 18:53	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 18:53	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:53	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 18:53	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 18:53	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 18:53	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 18:53	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 18:53	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 18:53	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/21/2017 18:53	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/21/2017 18:53	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803005** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-12A** Date Collected: 11/20/17 09:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		11/21/2017 18:53	
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	11/21/2017 18:53	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 18:53	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/21/2017 18:53	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/21/2017 18:53	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/21/2017 18:53	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**98**		**mg/L**	**1**	5.0	0.50	11/21/2017 19:02	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2017 19:02	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.3**		**mg/L**	**5**	0.050	0.040	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**170**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803006** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-12B** Date Collected: 11/20/17 09:25

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**	10	9.0	12/1/2017 12:07	J
Barium	**21**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:07	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:07	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:07	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:07	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803006** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-12B** Date Collected: 11/20/17 09:25

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:07	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:07	J
Iron	**700**		**ug/L**	**1**	200	100	12/1/2017 12:07	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:07	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:07	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:07	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:07	J
Sodium	**6.4**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:07	J
Vanadium	**1.1**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:07	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:07	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:36	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:36	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 16:01	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 19:29	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 19:29	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:29	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 19:29	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 19:29	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:29	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 19:29	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:29	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 19:29	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:29	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 19:29	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 19:29	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 19:29	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 19:29	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 19:29	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 19:29	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803006** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-12B** Date Collected: 11/20/17 09:25

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	11/21/2017 19:29	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 19:29	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 19:29	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 19:29	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 19:29	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 19:29	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 19:29	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 19:29	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 19:29	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:29	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 19:29	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 19:29	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 19:29	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 19:29	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 19:29	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 19:29	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 19:29	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 19:29	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 19:29	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 19:29	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 19:29	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 19:29	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:29	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 19:29	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 19:29	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 19:29	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:29	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:29	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 19:29	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/21/2017 19:29	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/21/2017 19:29	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/21/2017 19:29	
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	11/21/2017 19:29	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 19:29	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/21/2017 19:29	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/21/2017 19:29	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/21/2017 19:29	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803006** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-12B** Date Collected: 11/20/17 09:25

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	**13**		**mg/L**	**1**	5.0	0.50	11/21/2017 19:23	J
Nitrate	**0.84**		**mg/L**	**1**	0.50	0.050	11/21/2017 19:23	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.12**		**mg/L**	**1**	0.010	0.0080	12/5/2017 12:39	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**44**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803007** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-DUP-2** Date Collected: 11/20/17 12:00

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**	10	9.0	12/1/2017 12:10	J
Barium	**35**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:10	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:10	J
Cadmium	**1.1**		**ug/L**	**1**	1.0	0.45	12/1/2017 12:10	J
Chromium	**1.8**	**I**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:10	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:10	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:10	J
Iron	**220**		**ug/L**	**1**	200	100	12/1/2017 12:10	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:10	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:10	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:10	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:10	J
Sodium	**150**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:10	J
Vanadium	**10**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:10	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:10	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803007** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-DUP-2** Date Collected: 11/20/17 12:00

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	**2.2**		**ug/L**	**1**	0.70	0.046	11/30/2017 21:40	J
Thallium	**0.060**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:40	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 16:10	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 19:59	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 19:59	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:59	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 19:59	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 19:59	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:59	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 19:59	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:59	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 19:59	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:59	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 19:59	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 19:59	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 19:59	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 19:59	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 19:59	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 19:59	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 19:59	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 19:59	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 19:59	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 19:59	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 19:59	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 19:59	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 19:59	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 19:59	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 19:59	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:59	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 19:59	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803007** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-DUP-2** Date Collected: 11/20/17 12:00

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	11/21/2017 19:59	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 19:59	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 19:59	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 19:59	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 19:59	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 19:59	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 19:59	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 19:59	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 19:59	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 19:59	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 19:59	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:59	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 19:59	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 19:59	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 19:59	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 19:59	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 19:59	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 19:59	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/21/2017 19:59	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/21/2017 19:59	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/21/2017 19:59	
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	11/21/2017 19:59	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 19:59	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/21/2017 19:59	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/21/2017 19:59	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/21/2017 19:59	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**320**		**mg/L**	**10**	50	5.0	11/21/2017 19:44	J
Nitrate	**5.7**		**mg/L**	**10**	5.0	0.50	11/21/2017 19:44	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**1.2**		**mg/L**	**2**	0.020	0.016	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803007** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-DUP-2** Date Collected: 11/20/17 12:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**1300**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803008** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-TripBlank-6** Date Collected: 11/20/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 20:35	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 20:35	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 20:35	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 20:35	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 20:35	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 20:35	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 20:35	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 20:35	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 20:35	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 20:35	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 20:35	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 20:35	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 20:35	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 20:35	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 20:35	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 20:35	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 20:35	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 20:35	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 20:35	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 20:35	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 20:35	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 20:35	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 20:35	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 20:35	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 20:35	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 20:35	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803008** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-TripBlank-6** Date Collected: 11/20/17 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	11/21/2017 20:35	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 20:35	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 20:35	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 20:35	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 20:35	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 20:35	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 20:35	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 20:35	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 20:35	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 20:35	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 20:35	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 20:35	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 20:35	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 20:35	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 20:35	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 20:35	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 20:35	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 20:35	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 20:35	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/21/2017 20:35	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/21/2017 20:35	
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		11/21/2017 20:35	
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	11/21/2017 20:35	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 20:35	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/21/2017 20:35	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/21/2017 20:35	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/21/2017 20:35	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803009** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-10A** Date Collected: 11/20/17 12:55

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**	10	9.0	12/1/2017 12:30	J
Barium	**53**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:30	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:30	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:30	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:30	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:30	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:30	J
Iron	**4900**		**ug/L**	**1**	200	100	12/1/2017 12:30	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:30	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:30	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:30	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:30	J
Sodium	**20**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:30	J
Vanadium	**1.9**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:30	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:30	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.086**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:54	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:54	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 16:13	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 21:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 21:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 21:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 21:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:04	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 21:04	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803009** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-10A** Date Collected: 11/20/17 12:55

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	11/21/2017 21:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 21:04	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 21:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 21:04	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 21:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 21:04	J
Acetone	**3.3**	**I**	**ug/L**	**1**	5.0	2.1	11/21/2017 21:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 21:04	J
Benzene	**2.2**		**ug/L**	**1**	1.0	0.16	11/21/2017 21:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 21:04	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 21:04	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 21:04	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 21:04	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 21:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 21:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 21:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 21:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 21:04	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 21:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 21:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 21:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 21:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 21:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 21:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 21:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 21:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 21:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 21:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 21:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 21:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 21:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 21:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:04	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 21:04	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/21/2017 21:04	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/21/2017 21:04	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803009** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-10A** Date Collected: 11/20/17 12:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/21/2017 21:04	
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	11/21/2017 21:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 21:04	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/21/2017 21:04	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/21/2017 21:04	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/21/2017 21:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**15**		**mg/L**	**1**	5.0	0.50	11/21/2017 20:05	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2017 20:05	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**6.7**		**mg/L**	**20**	0.20	0.16	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**420**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803010** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-10B** Date Collected: 11/20/17 12:15

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**	10	9.0	12/1/2017 12:33	J
Barium	**42**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:33	J
Beryllium	**1.8**		**ug/L**	**1**	0.80	0.40	12/1/2017 12:33	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:33	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:33	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803010** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-10B** Date Collected: 11/20/17 12:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**3.5**	**I**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:33	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:33	J
Iron	**5600**		**ug/L**	**1**	200	100	12/1/2017 12:33	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:33	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:33	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:33	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:33	J
Sodium	**21**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:33	J
Vanadium	**3.7**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:33	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.053**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 21:57	J
Thallium	**0.070**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 21:57	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 16:16	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 21:40	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 21:40	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:40	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 21:40	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 21:40	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:40	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 21:40	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:40	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 21:40	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:40	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 21:40	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 21:40	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 21:40	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 21:40	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 21:40	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 21:40	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803010** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-10B** Date Collected: 11/20/17 12:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Benzene	**6.2**		**ug/L**	**1**	1.0	0.16	11/21/2017 21:40	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 21:40	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 21:40	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 21:40	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 21:40	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 21:40	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 21:40	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 21:40	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 21:40	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:40	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 21:40	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 21:40	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 21:40	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 21:40	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 21:40	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 21:40	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 21:40	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 21:40	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 21:40	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 21:40	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 21:40	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 21:40	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:40	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 21:40	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 21:40	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 21:40	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 21:40	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 21:40	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 21:40	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/21/2017 21:40	
Toluene-d8 (S)	**104**		**%**	**1**	77-119		11/21/2017 21:40	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		11/21/2017 21:40	
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	11/21/2017 21:40	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 21:40	J
1,2-Dichloroethane-d4 (S)	**95**		**%**	**1**	77-125		11/21/2017 21:40	
Toluene-d8 (S)	**107**		**%**	**1**	80-121		11/21/2017 21:40	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		11/21/2017 21:40	

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803010** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-10B** Date Collected: 11/20/17 12:15

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	**49**		**mg/L**	**5**	25	2.5	11/21/2017 20:26	J
Nitrate	**0.25**	**U**	**mg/L**	**5**	2.5	0.25	11/21/2017 20:26	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**8.4**		**mg/L**	**20**	0.20	0.16	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**720**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803011** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-11A** Date Collected: 11/20/17 11:20

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**	10	9.0	12/1/2017 12:36	J
Barium	**61**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:36	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:36	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:36	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:36	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:36	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:36	J
Iron	**7600**		**ug/L**	**1**	200	100	12/1/2017 12:36	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:36	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:36	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:36	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:36	J
Sodium	**9.1**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:36	J
Vanadium	**4.3**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:36	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:36	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803011** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-11A** Date Collected: 11/20/17 11:20

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	**0.083**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 22:01	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 22:01	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 16:19	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 22:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 22:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 22:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 22:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:10	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 22:10	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 22:10	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 22:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 22:10	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 22:10	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 22:10	J
Acetone	**30**		**ug/L**	**1**	5.0	2.1	11/21/2017 22:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 22:10	J
Benzene	**3.7**		**ug/L**	**1**	1.0	0.16	11/21/2017 22:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 22:10	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 22:10	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 22:10	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 22:10	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 22:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 22:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 22:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 22:10	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 22:10	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803011** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-11A** Date Collected: 11/20/17 11:20

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	11/21/2017 22:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 22:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 22:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 22:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 22:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 22:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 22:10	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 22:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 22:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 22:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 22:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 22:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 22:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 22:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:10	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 22:10	J
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	70-128		11/21/2017 22:10	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/21/2017 22:10	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/21/2017 22:10	
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	11/21/2017 22:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 22:10	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/21/2017 22:10	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/21/2017 22:10	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/21/2017 22:10	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**17**		**mg/L**	**1**	5.0	0.50	11/21/2017 20:47	J
Nitrate	**0.056**	**I**	**mg/L**	**1**	0.50	0.050	11/21/2017 20:47	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**3.8**		**mg/L**	**5**	0.050	0.040	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803011** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-11A** Date Collected: 11/20/17 11:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**330**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

Lab ID: **J1711803012** Date Received: 11/21/17 09:15 Matrix: Water
Sample ID: **17324-MW-11B** Date Collected: 11/20/17 10:50

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**	10	9.0	12/1/2017 12:39	J
Barium	**14**		**ug/L**	**1**	2.0	0.83	12/1/2017 12:39	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	12/1/2017 12:39	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	12/1/2017 12:39	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	12/1/2017 12:39	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	12/1/2017 12:39	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	12/1/2017 12:39	J
Iron	**300**		**ug/L**	**1**	200	100	12/1/2017 12:39	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	12/1/2017 12:39	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	12/1/2017 12:39	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	12/1/2017 12:39	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	12/1/2017 12:39	J
Sodium	**10**		**mg/L**	**1**	0.70	0.34	12/1/2017 12:39	J
Vanadium	**2.1**		**ug/L**	**1**	1.0	0.55	12/1/2017 12:39	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	12/1/2017 12:39	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 22:05	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 22:05	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.021**	**U**	**ug/L**	**1**	0.10	0.021	11/29/2017 16:22	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803012** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-11B** Date Collected: 11/20/17 10:50

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	**11**		**mg/L**	**1**	5.0	0.50	11/21/2017 21:51	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/21/2017 21:51	J
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 22:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 22:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 22:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 22:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:46	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 22:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 22:46	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 22:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 22:46	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 22:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 22:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 22:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 22:46	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 22:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 22:46	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 22:46	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 22:46	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 22:46	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 22:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 22:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 22:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 22:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:46	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 22:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 22:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 22:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 22:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 22:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 22:46	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803012** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-MW-11B** Date Collected: 11/20/17 10:50

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	11/21/2017 22:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 22:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 22:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 22:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 22:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 22:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 22:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 22:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 22:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 22:46	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 22:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 22:46	J
1,2-Dichloroethane-d4 (S)	**107**		**%**	**1**	70-128		11/21/2017 22:46	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/21/2017 22:46	
Bromofluorobenzene (S)	**107**		**%**	**1**	86-123		11/21/2017 22:46	
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	11/21/2017 22:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 22:46	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/21/2017 22:46	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/21/2017 22:46	
Bromofluorobenzene (S)	**105**		**%**	**1**	80-129		11/21/2017 22:46	
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.02**		**mg/L**	**1**	0.010	0.0080	12/5/2017 15:50	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**30**		**mg/L**	**1**	10	10	11/22/2017 07:14	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803013** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-TripBlank-7** Date Collected: 11/20/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 23:15	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 23:15	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:15	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 23:15	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 23:15	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:15	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 23:15	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:15	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 23:15	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:15	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 23:15	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 23:15	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 23:15	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 23:15	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 23:15	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 23:15	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 23:15	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 23:15	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 23:15	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 23:15	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 23:15	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 23:15	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 23:15	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 23:15	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 23:15	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:15	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 23:15	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 23:15	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 23:15	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 23:15	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 23:15	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 23:15	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 23:15	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 23:15	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 23:15	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 23:15	J

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ANALYTICAL RESULTS

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711803013** Date Received: 11/21/17 09:15 Matrix: Water

Sample ID: **17324-TripBlank-7** Date Collected: 11/20/17 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	11/21/2017 23:15	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 23:15	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:15	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 23:15	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 23:15	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 23:15	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:15	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:15	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 23:15	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/21/2017 23:15	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/21/2017 23:15	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/21/2017 23:15	
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	11/21/2017 23:15	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 23:15	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/21/2017 23:15	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/21/2017 23:15	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/21/2017 23:15	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1711803 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.

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: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5489 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803009,

METHOD BLANK: 2539508

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

QC Batch: MSVj/5250 Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030B Prepared: 11/21/2017 08:40

Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803008,

METHOD BLANK: 2539520

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	0.24	0.24	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	0.21	0.21	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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	U

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QUALITY CONTROL DATA

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2539520

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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)	%	105	70-128	
Toluene-d8 (S)	%	107	77-119	
Bromofluorobenzene (S)	%	111	86-123	

QC Batch: MSVj/5252 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 11/21/2017 08:40

Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803008,

METHOD BLANK: 2539528

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)	%	95	77-125	
Toluene-d8 (S)	%	111	80-121	
Bromofluorobenzene (S)	%	109	80-129	

QC Batch: DGMj/3834 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/22/2017 09:30

Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803009,

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QUALITY CONTROL DATA

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2539562

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.34	0.34	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: WCAj/5497 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803009,

METHOD BLANK: 2540041

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

QC Batch: WCAj/5498 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: J1711803012

METHOD BLANK: 2540058

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

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QUALITY CONTROL DATA

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: DGMj/3848 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 11/28/2017 03:30
Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803009,

METHOD BLANK: 2542321

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: DGMj/3859 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 11/29/2017 10:10
Associated Lab Samples: J1711803001, J1711803002, J1711803003, J1711803004, J1711803005, J1711803006, J1711803007, J1711803009,

METHOD BLANK: 2544129

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.021	0.021	U

QC Batch: WCAg/6692 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1711803002, J1711803004, J1711803006

METHOD BLANK: 2550919

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

QC Batch: WCAg/6693 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1711803001, J1711803003, J1711803005, J1711803007, J1711803009, J1711803010, J1711803011, J1711803012

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QUALITY CONTROL DATA

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2551320

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 CROSS REFERENCE TABLE

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711803001	17324-MW-16AR			SM 2540 C	WCAj/5489
J1711803002	17324-MW-16BR			SM 2540 C	WCAj/5489
J1711803003	17324-MW-13A			SM 2540 C	WCAj/5489
J1711803004	17324-MW-13B			SM 2540 C	WCAj/5489
J1711803005	17324-MW-12A			SM 2540 C	WCAj/5489
J1711803006	17324-MW-12B			SM 2540 C	WCAj/5489
J1711803007	17324-DUP-2			SM 2540 C	WCAj/5489
J1711803009	17324-MW-10A			SM 2540 C	WCAj/5489
J1711803010	17324-MW-10B			SM 2540 C	WCAj/5489
J1711803011	17324-MW-11A			SM 2540 C	WCAj/5489
J1711803012	17324-MW-11B			SM 2540 C	WCAj/5489
J1711803001	17324-MW-16AR	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803002	17324-MW-16BR	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803003	17324-MW-13A	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803004	17324-MW-13B	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803005	17324-MW-12A	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803006	17324-MW-12B	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803007	17324-DUP-2	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803008	17324-TripBlank-6	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803009	17324-MW-10A	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803010	17324-MW-10B	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803011	17324-MW-11A	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803012	17324-MW-11B	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803013	17324-TripBlank-7	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711803001	17324-MW-16AR	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803002	17324-MW-16BR	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803003	17324-MW-13A	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803004	17324-MW-13B	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803005	17324-MW-12A	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803006	17324-MW-12B	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803007	17324-DUP-2	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803008	17324-TripBlank-6	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711803009	17324-MW-10A	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803010	17324-MW-10B	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803011	17324-MW-11A	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803012	17324-MW-11B	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803013	17324-TripBlank-7	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711803001	17324-MW-16AR	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803002	17324-MW-16BR	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803003	17324-MW-13A	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803004	17324-MW-13B	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803005	17324-MW-12A	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803006	17324-MW-12B	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803007	17324-DUP-2	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803009	17324-MW-10A	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803010	17324-MW-10B	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803011	17324-MW-11A	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803012	17324-MW-11B	SW-846 3010A	DGMj/3834	SW-846 6010	ICPj/2389
J1711803001	17324-MW-16AR			EPA 300.0	WCAj/5497
J1711803002	17324-MW-16BR			EPA 300.0	WCAj/5497
J1711803003	17324-MW-13A			EPA 300.0	WCAj/5497
J1711803004	17324-MW-13B			EPA 300.0	WCAj/5497
J1711803005	17324-MW-12A			EPA 300.0	WCAj/5497
J1711803006	17324-MW-12B			EPA 300.0	WCAj/5497
J1711803007	17324-DUP-2			EPA 300.0	WCAj/5497
J1711803009	17324-MW-10A			EPA 300.0	WCAj/5497
J1711803010	17324-MW-10B			EPA 300.0	WCAj/5497
J1711803011	17324-MW-11A			EPA 300.0	WCAj/5497
J1711803012	17324-MW-11B			EPA 300.0	WCAj/5498
J1711803001	17324-MW-16AR	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803002	17324-MW-16BR	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711803003	17324-MW-13A	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803004	17324-MW-13B	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803005	17324-MW-12A	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803006	17324-MW-12B	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803007	17324-DUP-2	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803009	17324-MW-10A	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803010	17324-MW-10B	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803011	17324-MW-11A	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803012	17324-MW-11B	SW-846 3010A	DGMj/3848	SW-846 6020	ICMj/1801
J1711803001	17324-MW-16AR	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803002	17324-MW-16BR	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803003	17324-MW-13A	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803004	17324-MW-13B	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803005	17324-MW-12A	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803006	17324-MW-12B	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803007	17324-DUP-2	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803009	17324-MW-10A	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803010	17324-MW-10B	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803011	17324-MW-11A	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803012	17324-MW-11B	SW-846 7470A	DGMj/3859	SW-846 7470A	CVAj/1661
J1711803002	17324-MW-16BR			EPA 350.1	WCAg/6692
J1711803004	17324-MW-13B			EPA 350.1	WCAg/6692
J1711803006	17324-MW-12B			EPA 350.1	WCAg/6692
J1711803001	17324-MW-16AR			EPA 350.1	WCAg/6693
J1711803003	17324-MW-13A			EPA 350.1	WCAg/6693
J1711803005	17324-MW-12A			EPA 350.1	WCAg/6693
J1711803007	17324-DUP-2			EPA 350.1	WCAg/6693
J1711803009	17324-MW-10A			EPA 350.1	WCAg/6693
J1711803010	17324-MW-10B			EPA 350.1	WCAg/6693
J1711803011	17324-MW-11A			EPA 350.1	WCAg/6693
J1711803012	17324-MW-11B			EPA 350.1	WCAg/6693

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711803 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch

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☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 95
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 81

J1711803

1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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 SWSF 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							
							PRESERVATION	HCL	HNO3	Ice	H2SO4							
17324-MW-16AR		G	11.20.17	0640	GW	6		3	1	1	1							001
17324-MW-16BR		G	11.20.17	0615	GW	6		3	1	1	1							002
17324-MW-13A		G	11.20.17	0815	GW	6		3	1	1	1							003
17324-MW-13B		G	11.20.17	0750	GW	6		3	1	1	1							004
17324-MW-12A		G	11.20.17	0950	GW	6		3	1	1	1							005
17324-MW-12B		G	11.20.17	0925	GW	6		3	1	1	1							006
17324-Dup-2		G	11.20.17	1200	GW	6		3	1	1	1							007
17324-Trip Blank-6		G	11.20.17	0000	DI H_2O	3		3										008

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) ID: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Joe Terry	11-20-17	1600	FedEx		
2	FedEx	11-21-17	0915	Byata	11-21-17	0915
3						
4						

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

Wednesday, December 06, 2017 10:04:35 AM

Advanced Environmental Laboratories, Inc.

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☑ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 3
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 95
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.

J1711803

1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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	PRESERVATION
17324-MW-10A		Grab	11.20.17	1255	GW	6	
17324-MW-10B		Grab	11.20.17	1215	GW	6	
17324-MW-11A		Grab	11.20.17	1120	GW	6	
17324-MW-11B		Grab	11.20.17	1050	GW	6	
17324-Trip Blank-7		Grab	11.20.17	0000	DI H_2O	3	

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							
PRESERVATION	HCL	HNO3	Ice	H2SO4							
	3	1	1	1							812
	3	1	1	1							813
	3	1	1	1							814
	3	1	1	1							815
	3										816

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		11.20.17	1600	FedEx		
2	FedEx	11.21.17	0815		11.21.17	0815
3						
4						

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

Wednesday, December 06, 2017 10:04:35 AM
Page 48 of 49

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D Landfill

Date/Time Rcvd: 11-21-17 0915 Log-In request number: 1711803

Received by: BY Completed by: BY

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				
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?	X	✓ 11-21-17	
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)

Sample -003 (MW-11A) had headspace greater than 6mm in one of the unpreserved vials.

DCN: AD-D048
Eff date 2/3/10, Last rev 9/6/16

Advanced Environmental Laboratories, Inc.

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Project No.: J1711803

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:

D. Spikes: The matrix spike recovery of Nitrate for J1711803002 was outside control criteria due to the presence of target analytes in the sample. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential high bias in this matrix.

E. Serial Diluion:

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

Advanced Environmental Laboratories, Inc.

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Payments: P.O. Box 551580 Jacksonville, FL32255-1580
Phone: (904)363-9350
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December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1711729 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, November 17, 2017. 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: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1711729001	17320-MW-29A	Water	11/16/2017 06:45	11/17/2017 08:45
J1711729002	17320-MW-29B	Water	11/16/2017 06:20	11/17/2017 08:45
J1711729003	17320-MW-17AR	Water	11/16/2017 08:10	11/17/2017 08:45
J1711729004	17320-MW-17BR	Water	11/16/2017 07:40	11/17/2017 08:45
J1711729005	17320-MW-31A	Water	11/16/2017 11:05	11/17/2017 08:45
J1711729006	17320-MW-31B	Water	11/16/2017 10:15	11/17/2017 08:45
J1711729007	17320-Equipment Blank	Water	11/16/2017 10:40	11/17/2017 08:45
J1711729008	17320-Trip Blank-3	Water	11/16/2017 00:00	11/17/2017 08:45
J1711729009	17320-MW-25A	Water	11/16/2017 12:15	11/17/2017 08:45
J1711729010	17320-MW-25B	Water	11/16/2017 12:50	11/17/2017 08:45
J1711729011	17320-CW-1A	Water	11/16/2017 13:55	11/17/2017 08:45
J1711729012	17320-CW-2A	Water	11/16/2017 14:50	11/17/2017 08:45
J1711729013	17320-CW-3A	Water	11/16/2017 15:45	11/17/2017 08:45
J1711729014	17320-TripBlank-4	Water	11/16/2017 00:00	11/17/2017 08:45

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729001** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-29A** Date Collected: 11/16/17 06:45

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**	10	9.0	11/30/2017 12:01	J
Barium	**50**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:01	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:01	J
Cadmium	**1.5**		**ug/L**	**1**	1.0	0.45	11/30/2017 12:01	J
Chromium	**4.9**		**ug/L**	**1**	3.0	1.6	11/30/2017 12:01	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:01	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:01	J
Iron	**3400**		**ug/L**	**1**	200	100	11/30/2017 12:01	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:01	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:01	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:01	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:01	J
Sodium	**11**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:01	J
Vanadium	**5.4**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:01	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:01	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.71**		**ug/L**	**1**	0.70	0.046	11/30/2017 19:20	J
Thallium	**0.34**		**ug/L**	**1**	0.20	0.057	11/30/2017 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	11/27/2017 14:13	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 08:44	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 08:44	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:44	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 08:44	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 08:44	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:44	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 08:44	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729001** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-29A** Date Collected: 11/16/17 06:45

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	11/18/2017 08:44	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 08:44	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:44	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 08:44	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 08:44	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 08:44	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 08:44	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 08:44	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 08:44	J
Benzene	**1.2**		**ug/L**	**1**	1.0	0.16	11/18/2017 08:44	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 08:44	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 08:44	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 08:44	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 08:44	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 08:44	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 08:44	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 08:44	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 08:44	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:44	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 08:44	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 08:44	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 08:44	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 08:44	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 08:44	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 08:44	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 08:44	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 08:44	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 08:44	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 08:44	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 08:44	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 08:44	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:44	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 08:44	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 08:44	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 08:44	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 08:44	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 08:44	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 08:44	J
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	70-128		11/18/2017 08:44	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/18/2017 08:44	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729001** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-29A** Date Collected: 11/16/17 06:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 08:44	
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	11/18/2017 08:44	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 08:44	J
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	77-125		11/18/2017 08:44	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/18/2017 08:44	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/18/2017 08:44	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	11/17/2017 16:54	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 16:54	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.74**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**120**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729002** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-29B** Date Collected: 11/16/17 06:20

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**	10	9.0	11/30/2017 12:04	J
Barium	**69**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:04	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:04	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:04	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:04	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729002** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-29B** Date Collected: 11/16/17 06:20

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:04	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:04	J
Iron	**2300**		**ug/L**	**1**	200	100	11/30/2017 12:04	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:04	J
Nickel	**46**		**ug/L**	**1**	10	6.0	11/30/2017 12:04	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:04	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:04	J
Sodium	**17**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:04	J
Vanadium	**2.2**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:04	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:04	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 19:24	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 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	11/27/2017 14:34	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 09:10	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 09:10	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:10	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 09:10	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 09:10	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:10	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 09:10	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:10	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 09:10	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:10	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 09:10	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 09:10	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 09:10	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 09:10	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 09:10	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 09:10	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729002** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-29B** Date Collected: 11/16/17 06:20

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	11/18/2017 09:10	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 09:10	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 09:10	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 09:10	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 09:10	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 09:10	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 09:10	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 09:10	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 09:10	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:10	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 09:10	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 09:10	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 09:10	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 09:10	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 09:10	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 09:10	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 09:10	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 09:10	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 09:10	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 09:10	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 09:10	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 09:10	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:10	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 09:10	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 09:10	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 09:10	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:10	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:10	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 09:10	J
1,2-Dichloroethane-d4 (S)	**104**		**%**	**1**	70-128		11/18/2017 09:10	
Toluene-d8 (S)	**110**		**%**	**1**	77-119		11/18/2017 09:10	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/18/2017 09:10	
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	11/18/2017 09:10	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 09:10	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		11/18/2017 09:10	
Toluene-d8 (S)	**113**		**%**	**1**	80-121		11/18/2017 09:10	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/18/2017 09:10	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729002** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-29B** Date Collected: 11/16/17 06:20

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**	**1**	5.0	0.50	11/17/2017 17:15	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 17:15	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.07**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**150**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729003** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-17AR** Date Collected: 11/16/17 08:10

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**	10	9.0	11/30/2017 12:06	J
Barium	**120**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:06	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:06	J
Cadmium	**5.1**		**ug/L**	**1**	1.0	0.45	11/30/2017 12:06	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:06	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:06	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:06	J
Iron	**1400**		**ug/L**	**1**	200	100	11/30/2017 12:06	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:06	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:06	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:06	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:06	J
Sodium	**44**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:06	J
Vanadium	**11**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:06	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:06	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729003** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-17AR** Date Collected: 11/16/17 08:10

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	**0.71**		**ug/L**	**1**	0.70	0.046	11/30/2017 19:28	J
Thallium	**0.084**	**I**	**ug/L**	**1**	0.20	0.057	11/30/2017 19:28	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	11/27/2017 14:37	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 09:36	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 09:36	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:36	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 09:36	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 09:36	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:36	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 09:36	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:36	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 09:36	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:36	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 09:36	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 09:36	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 09:36	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 09:36	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 09:36	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 09:36	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 09:36	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 09:36	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 09:36	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 09:36	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 09:36	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 09:36	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 09:36	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 09:36	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 09:36	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:36	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 09:36	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729003** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-17AR** Date Collected: 11/16/17 08:10

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	11/18/2017 09:36	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 09:36	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 09:36	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 09:36	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 09:36	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 09:36	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 09:36	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 09:36	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 09:36	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 09:36	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 09:36	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:36	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 09:36	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 09:36	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 09:36	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 09:36	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 09:36	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 09:36	J
1,2-Dichloroethane-d4 (S)	**105**		**%**	**1**	70-128		11/18/2017 09:36	
Toluene-d8 (S)	**110**		**%**	**1**	77-119		11/18/2017 09:36	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/18/2017 09:36	
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**	**ug/L**	**1**	0.20	0.11	11/18/2017 09:36	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 09:36	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		11/18/2017 09:36	
Toluene-d8 (S)	**113**		**%**	**1**	80-121		11/18/2017 09:36	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/18/2017 09:36	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**57**		**mg/L**	**1**	5.0	0.50	11/17/2017 17:36	J
Nitrate	**1.8**		**mg/L**	**1**	0.50	0.050	11/17/2017 17:36	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.99**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729003** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-17AR** Date Collected: 11/16/17 08:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**610**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729004** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-17BR** Date Collected: 11/16/17 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**	10	9.0	11/30/2017 12:25	J
Barium	**18**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:25	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:25	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:25	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:25	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:25	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:25	J
Iron	**580**		**ug/L**	**1**	200	100	11/30/2017 12:25	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:25	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:25	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:25	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:25	J
Sodium	**13**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:25	J
Vanadium	**1.2**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:25	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:25	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 19:32	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 19:32	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	11/27/2017 14:40	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729004** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-17BR** Date Collected: 11/16/17 07:40

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 10:02	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 10:02	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:02	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 10:02	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 10:02	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:02	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 10:02	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:02	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:02	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:02	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 10:02	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 10:02	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 10:02	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 10:02	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 10:02	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 10:02	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:02	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 10:02	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 10:02	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 10:02	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:02	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:02	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 10:02	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:02	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 10:02	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:02	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:02	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 10:02	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 10:02	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:02	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:02	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 10:02	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:02	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 10:02	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:02	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 10:02	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729004** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-17BR** Date Collected: 11/16/17 07:40

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	11/18/2017 10:02	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 10:02	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:02	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 10:02	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:02	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:02	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:02	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:02	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 10:02	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/18/2017 10:02	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/18/2017 10:02	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 10:02	
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	11/18/2017 10:02	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 10:02	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/18/2017 10:02	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/18/2017 10:02	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/18/2017 10:02	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	11/17/2017 17:57	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 17:57	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.10**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**73**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729005** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-31A** Date Collected: 11/16/17 11:05

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**	10	9.0	11/30/2017 12:27	J
Barium	**58**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:27	J
Beryllium	**0.66**	**I**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:27	J
Cadmium	**0.67**	**I**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:27	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:27	J
Cobalt	**29**		**ug/L**	**1**	4.0	1.9	11/30/2017 12:27	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:27	J
Iron	**52000**		**ug/L**	**1**	200	100	11/30/2017 12:27	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:27	J
Nickel	**20**		**ug/L**	**1**	10	6.0	11/30/2017 12:27	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:27	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:27	J
Sodium	**19**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:27	J
Vanadium	**6.2**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:27	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:27	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	0.046	11/30/2017 19:36	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 19:36	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	11/27/2017 14:44	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 10:28	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 10:28	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:28	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 10:28	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 10:28	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:28	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 10:28	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729005**
Sample ID: **17320-MW-31A**

Date Received: 11/17/17 08:45 Matrix: Water
Date Collected: 11/16/17 11:05

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	11/18/2017 10:28	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:28	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:28	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 10:28	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 10:28	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 10:28	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 10:28	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 10:28	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 10:28	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:28	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 10:28	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 10:28	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 10:28	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:28	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:28	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 10:28	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:28	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 10:28	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:28	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:28	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 10:28	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 10:28	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:28	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:28	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 10:28	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:28	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 10:28	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:28	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 10:28	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 10:28	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 10:28	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:28	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 10:28	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:28	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:28	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:28	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:28	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 10:28	J
1,2-Dichloroethane-d4 (S)	**112**		**%**	**1**	70-128		11/18/2017 10:28	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/18/2017 10:28	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729005** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-31A** Date Collected: 11/16/17 11:05

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 10:28	
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	11/18/2017 10:28	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 10:28	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/18/2017 10:28	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/18/2017 10:28	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/18/2017 10:28	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**16**		**mg/L**	**1**	5.0	0.50	11/17/2017 18:18	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 18:18	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.5**		**mg/L**	**10**	0.10	0.080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1100**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729006** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-31B** Date Collected: 11/16/17 10:15

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**	10	9.0	11/30/2017 12:30	J
Barium	**78**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:30	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:30	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:30	J
Chromium	**1.8**	**I**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:30	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729006** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-31B** Date Collected: 11/16/17 10:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:30	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:30	J
Iron	**6000**		**ug/L**	**1**	200	100	11/30/2017 12:30	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:30	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:30	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:30	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:30	J
Sodium	**15**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:30	J
Vanadium	**2.4**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:30	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:30	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.068**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 19:40	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 19:40	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	11/27/2017 14:47	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 10:54	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 10:54	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:54	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 10:54	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 10:54	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:54	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 10:54	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:54	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:54	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:54	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 10:54	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 10:54	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 10:54	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 10:54	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 10:54	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 10:54	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729006** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-31B** Date Collected: 11/16/17 10:15

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	11/18/2017 10:54	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 10:54	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 10:54	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 10:54	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:54	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:54	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 10:54	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:54	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 10:54	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:54	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 10:54	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 10:54	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 10:54	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:54	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:54	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 10:54	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:54	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 10:54	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 10:54	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 10:54	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 10:54	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 10:54	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:54	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 10:54	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 10:54	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 10:54	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 10:54	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 10:54	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 10:54	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/18/2017 10:54	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/18/2017 10:54	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 10:54	
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	11/18/2017 10:54	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 10:54	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/18/2017 10:54	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		11/18/2017 10:54	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/18/2017 10:54	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729006** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-31B** Date Collected: 11/16/17 10:15

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	**28**		**mg/L**	**1**	5.0	0.50	11/17/2017 18:39	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 18:39	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.45**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**180**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729007** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-Equipment Blank** Date Collected: 11/16/17 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**	10	9.0	11/30/2017 12:33	J
Barium	**0.83**	**U**	**ug/L**	**1**	2.0	0.83	11/30/2017 12:33	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:33	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:33	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:33	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:33	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:33	J
Iron	**100**	**U**	**ug/L**	**1**	200	100	11/30/2017 12:33	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:33	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:33	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:33	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:33	J
Sodium	**0.34**	**U**	**mg/L**	**1**	0.70	0.34	11/30/2017 12:33	J
Vanadium	**0.55**	**U**	**ug/L**	**1**	1.0	0.55	11/30/2017 12:33	J
Zinc	**12**	**I**	**ug/L**	**1**	20	11	11/30/2017 12:33	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729007** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-Equipment Blank** Date Collected: 11/16/17 10:40

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	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/30/2017 19:43	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 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	11/27/2017 14:50	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 11:20	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 11:20	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:20	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 11:20	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 11:20	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:20	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 11:20	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:20	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 11:20	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:20	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 11:20	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 11:20	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 11:20	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 11:20	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 11:20	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 11:20	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 11:20	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 11:20	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 11:20	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 11:20	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 11:20	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 11:20	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 11:20	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 11:20	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 11:20	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:20	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 11:20	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729007** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-Equipment Blank** Date Collected: 11/16/17 10:40

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	11/18/2017 11:20	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 11:20	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 11:20	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 11:20	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 11:20	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 11:20	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 11:20	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 11:20	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 11:20	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 11:20	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 11:20	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:20	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 11:20	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 11:20	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 11:20	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:20	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:20	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 11:20	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/18/2017 11:20	
Toluene-d8 (S)	**108**		**%**	**1**	77-119		11/18/2017 11:20	
Bromofluorobenzene (S)	**110**		**%**	**1**	86-123		11/18/2017 11:20	
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	11/18/2017 11:20	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 11:20	J
1,2-Dichloroethane-d4 (S)	**96**		**%**	**1**	77-125		11/18/2017 11:20	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		11/18/2017 11:20	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/18/2017 11:20	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.50**	**U**	**mg/L**	**1**	5.0	0.50	11/17/2017 19:42	J
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 19:42	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.0080**	**U,J4**	**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729007** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-Equipment Blank** Date Collected: 11/16/17 10:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**10**	**U**	**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729008** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-Trip Blank-3** Date Collected: 11/16/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 11:46	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 11:46	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:46	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 11:46	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 11:46	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:46	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 11:46	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:46	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 11:46	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:46	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 11:46	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 11:46	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 11:46	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 11:46	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 11:46	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 11:46	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 11:46	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 11:46	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 11:46	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 11:46	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 11:46	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 11:46	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 11:46	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 11:46	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 11:46	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:46	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729008** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-Trip Blank-3** Date Collected: 11/16/17 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	11/18/2017 11:46	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 11:46	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 11:46	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 11:46	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 11:46	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 11:46	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 11:46	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 11:46	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 11:46	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 11:46	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 11:46	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 11:46	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:46	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 11:46	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 11:46	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 11:46	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 11:46	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 11:46	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 11:46	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/18/2017 11:46	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/18/2017 11:46	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		11/18/2017 11:46	
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	11/18/2017 11:46	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 11:46	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/18/2017 11:46	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/18/2017 11:46	
Bromofluorobenzene (S)	**112**		**%**	**1**	80-129		11/18/2017 11:46	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729009** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-25A** Date Collected: 11/16/17 12:15

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**	10	9.0	11/30/2017 12:36	J
Barium	**100**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:36	J
Beryllium	**1.1**		**ug/L**	**1**	0.80	0.40	11/30/2017 12:36	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:36	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:36	J
Cobalt	**3.0**	**I**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:36	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:36	J
Iron	**18000**		**ug/L**	**1**	200	100	11/30/2017 12:36	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:36	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:36	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:36	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:36	J
Sodium	**60**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:36	J
Vanadium	**6.8**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:36	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:36	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.061**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 19:57	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 19:57	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	11/27/2017 15:09	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 12:12	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 12:12	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:12	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 12:12	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 12:12	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:12	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 12:12	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729009** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-25A** Date Collected: 11/16/17 12:15

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	11/18/2017 12:12	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 12:12	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:12	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 12:12	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 12:12	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 12:12	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 12:12	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 12:12	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 12:12	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 12:12	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 12:12	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 12:12	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 12:12	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 12:12	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 12:12	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 12:12	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 12:12	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 12:12	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:12	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 12:12	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 12:12	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 12:12	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 12:12	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 12:12	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 12:12	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 12:12	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 12:12	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 12:12	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 12:12	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 12:12	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 12:12	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:12	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 12:12	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 12:12	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 12:12	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:12	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:12	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 12:12	J
1,2-Dichloroethane-d4 (S)	**110**		**%**	**1**	70-128		11/18/2017 12:12	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/18/2017 12:12	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729009** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-25A** Date Collected: 11/16/17 12:15

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**113**		**%**	**1**	86-123		11/18/2017 12:12	
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	11/18/2017 12:12	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 12:12	J
1,2-Dichloroethane-d4 (S)	**101**		**%**	**1**	77-125		11/18/2017 12:12	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/18/2017 12:12	
Bromofluorobenzene (S)	**111**		**%**	**1**	80-129		11/18/2017 12:12	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**110**	**J4**	**mg/L**	**1**	5.0	0.50	11/17/2017 20:03	J
Nitrate	**0.050**	**U,J4**	**mg/L**	**1**	0.50	0.050	11/17/2017 20:03	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**2.8**		**mg/L**	**5**	0.050	0.040	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**610**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729010** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-25B** Date Collected: 11/16/17 12:50

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**	10	9.0	11/30/2017 12:39	J
Barium	**66**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:39	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:39	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:39	J
Chromium	**4.1**		**ug/L**	**1**	3.0	1.6	11/30/2017 12:39	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729010** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-25B** Date Collected: 11/16/17 12:50

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:39	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:39	J
Iron	**1100**		**ug/L**	**1**	200	100	11/30/2017 12:39	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:39	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:39	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:39	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:39	J
Sodium	**11**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:39	J
Vanadium	**6.8**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:39	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:39	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	0.046	11/30/2017 20:01	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 20:01	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.035**	**I**	**ug/L**	**1**	0.10	0.011	11/27/2017 15:12	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 12:38	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 12:38	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:38	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 12:38	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 12:38	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:38	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 12:38	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:38	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 12:38	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:38	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 12:38	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 12:38	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 12:38	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 12:38	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 12:38	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 12:38	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729010** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-MW-25B** Date Collected: 11/16/17 12:50

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	11/18/2017 12:38	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 12:38	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 12:38	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 12:38	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 12:38	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 12:38	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 12:38	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 12:38	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 12:38	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:38	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 12:38	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 12:38	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 12:38	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 12:38	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 12:38	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 12:38	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 12:38	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 12:38	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 12:38	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 12:38	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 12:38	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 12:38	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:38	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 12:38	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 12:38	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 12:38	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 12:38	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 12:38	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 12:38	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/18/2017 12:38	
Toluene-d8 (S)	**105**		**%**	**1**	77-119		11/18/2017 12:38	
Bromofluorobenzene (S)	**108**		**%**	**1**	86-123		11/18/2017 12:38	
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	11/18/2017 12:38	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 12:38	J
1,2-Dichloroethane-d4 (S)	**99**		**%**	**1**	77-125		11/18/2017 12:38	
Toluene-d8 (S)	**108**		**%**	**1**	80-121		11/18/2017 12:38	
Bromofluorobenzene (S)	**106**		**%**	**1**	80-129		11/18/2017 12:38	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729010** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-MW-25B** Date Collected: 11/16/17 12:50

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	**27**		**mg/L**	**2**	10	1.0	11/17/2017 20:45	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/17/2017 20:45	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.24**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**82**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729011** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-CW-1A** Date Collected: 11/16/17 13:55

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	**140**		**ug/L**	**1**	10	9.0	11/30/2017 12:42	J
Barium	**110**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:42	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:42	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:42	J
Chromium	**10**		**ug/L**	**1**	3.0	1.6	11/30/2017 12:42	J
Cobalt	**2.3**	**I**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:42	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:42	J
Iron	**13000**		**ug/L**	**1**	200	100	11/30/2017 12:42	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:42	J
Nickel	**6.1**	**I**	**ug/L**	**1**	10	6.0	11/30/2017 12:42	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:42	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:42	J
Sodium	**68**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:42	J
Vanadium	**7.3**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:42	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:42	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729011** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-CW-1A** Date Collected: 11/16/17 13:55

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	**0.16**	**I**	**ug/L**	**1**	0.70	0.046	11/30/2017 20:05	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 20:05	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	11/27/2017 15:15	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 13:04	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 13:04	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:04	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 13:04	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 13:04	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:04	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 13:04	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:04	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:04	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:04	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 13:04	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 13:04	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 13:04	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 13:04	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 13:04	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 13:04	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:04	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 13:04	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 13:04	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 13:04	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:04	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:04	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 13:04	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:04	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 13:04	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:04	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:04	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729011** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-CW-1A** Date Collected: 11/16/17 13:55

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	11/18/2017 13:04	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 13:04	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:04	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:04	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 13:04	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:04	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 13:04	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:04	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 13:04	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 13:04	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 13:04	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:04	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 13:04	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:04	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:04	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:04	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:04	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 13:04	J
1,2-Dichloroethane-d4 (S)	**106**		**%**	**1**	70-128		11/18/2017 13:04	
Toluene-d8 (S)	**108**		**%**	**1**	77-119		11/18/2017 13:04	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 13:04	
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	11/18/2017 13:04	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 13:04	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/18/2017 13:04	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		11/18/2017 13:04	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/18/2017 13:04	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**120**		**mg/L**	**2**	10	1.0	11/17/2017 21:07	J
Nitrate	**0.10**	**U**	**mg/L**	**2**	1.0	0.10	11/17/2017 21:07	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**4.5**		**mg/L**	**10**	0.10	0.080	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729011** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-CW-1A** Date Collected: 11/16/17 13:55

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Total Dissolved Solids	**650**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729012** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-CW-2A** Date Collected: 11/16/17 14:50

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**	10	9.0	11/30/2017 12:44	J
Barium	**50**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:44	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:44	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:44	J
Chromium	**5.7**		**ug/L**	**1**	3.0	1.6	11/30/2017 12:44	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:44	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:44	J
Iron	**380**		**ug/L**	**1**	200	100	11/30/2017 12:44	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:44	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:44	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:44	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:44	J
Sodium	**170**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:44	J
Vanadium	**14**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:44	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:44	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	0.046	11/30/2017 20:09	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 20:09	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	11/27/2017 15:18	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729012** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-CW-2A** Date Collected: 11/16/17 14:50

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 13:30	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 13:30	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:30	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 13:30	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 13:30	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:30	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 13:30	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:30	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:30	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:30	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 13:30	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 13:30	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 13:30	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 13:30	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 13:30	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 13:30	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:30	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 13:30	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 13:30	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 13:30	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:30	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:30	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 13:30	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:30	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 13:30	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:30	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:30	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 13:30	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 13:30	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:30	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:30	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 13:30	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:30	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 13:30	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:30	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 13:30	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729012** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-CW-2A** Date Collected: 11/16/17 14:50

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	11/18/2017 13:30	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 13:30	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:30	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 13:30	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:30	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:30	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:30	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:30	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 13:30	J
1,2-Dichloroethane-d4 (S)	**111**		**%**	**1**	70-128		11/18/2017 13:30	
Toluene-d8 (S)	**108**		**%**	**1**	77-119		11/18/2017 13:30	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 13:30	
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**	**ug/L**	**1**	0.20	0.11	11/18/2017 13:30	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 13:30	J
1,2-Dichloroethane-d4 (S)	**100**		**%**	**1**	77-125		11/18/2017 13:30	
Toluene-d8 (S)	**111**		**%**	**1**	80-121		11/18/2017 13:30	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/18/2017 13:30	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**2900**		**mg/L**	**20**	100	10	11/17/2017 21:28	J
Nitrate	**1.0**	**U**	**mg/L**	**20**	10	1.0	11/17/2017 21:28	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**14**		**mg/L**	**20**	0.20	0.16	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**970**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729013** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-CW-3A** Date Collected: 11/16/17 15:45

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**	10	9.0	11/30/2017 12:47	J
Barium	**92**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:47	J
Beryllium	**1.2**		**ug/L**	**1**	0.80	0.40	11/30/2017 12:47	J
Cadmium	**0.45**	**I**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:47	J
Chromium	**8.1**		**ug/L**	**1**	3.0	1.6	11/30/2017 12:47	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:47	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:47	J
Iron	**11000**		**ug/L**	**1**	200	100	11/30/2017 12:47	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:47	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:47	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:47	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:47	J
Sodium	**250**		**mg/L**	**1**	0.70	0.34	11/30/2017 12:47	J
Vanadium	**14**		**ug/L**	**1**	1.0	0.55	11/30/2017 12:47	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:47	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	0.046	11/30/2017 20:12	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/30/2017 20:12	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	11/27/2017 15:40	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 13:56	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 13:56	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:56	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 13:56	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 13:56	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:56	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 13:56	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729013** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-CW-3A** Date Collected: 11/16/17 15:45

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	11/18/2017 13:56	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:56	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:56	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 13:56	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 13:56	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 13:56	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 13:56	J
Acetone	**29**		**ug/L**	**1**	5.0	2.1	11/18/2017 13:56	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 13:56	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:56	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 13:56	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 13:56	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 13:56	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:56	J
Carbon Disulfide	**0.29**	**I**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:56	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 13:56	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:56	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 13:56	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:56	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 13:56	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 13:56	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 13:56	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:56	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:56	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 13:56	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:56	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 13:56	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 13:56	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 13:56	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 13:56	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 13:56	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:56	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 13:56	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 13:56	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 13:56	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 13:56	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 13:56	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 13:56	J
1,2-Dichloroethane-d4 (S)	**113**		**%**	**1**	70-128		11/18/2017 13:56	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/18/2017 13:56	

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729013** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-CW-3A** Date Collected: 11/16/17 15:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Bromofluorobenzene (S)	**115**		**%**	**1**	86-123		11/18/2017 13:56	
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	11/18/2017 13:56	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 13:56	J
1,2-Dichloroethane-d4 (S)	**102**		**%**	**1**	77-125		11/18/2017 13:56	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/18/2017 13:56	
Bromofluorobenzene (S)	**113**		**%**	**1**	80-129		11/18/2017 13:56	
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**540**		**mg/L**	**20**	100	10	11/17/2017 21:49	J
Nitrate	**1.0**	**U**	**mg/L**	**20**	10	1.0	11/17/2017 21:49	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**10**		**mg/L**	**20**	0.20	0.16	11/28/2017 14:08	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**1400**		**mg/L**	**1**	10	10	11/21/2017 09:17	J

Lab ID: **J1711729014** Date Received: 11/17/17 08:45 Matrix: Water
Sample ID: **17320-TripBlank-4** Date Collected: 11/16/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 14:22	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 14:22	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:22	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 14:22	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 14:22	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729014** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-TripBlank-4** Date Collected: 11/16/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:22	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 14:22	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:22	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 14:22	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:22	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 14:22	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 14:22	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 14:22	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 14:22	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/18/2017 14:22	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 14:22	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 14:22	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 14:22	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 14:22	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 14:22	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 14:22	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 14:22	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 14:22	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 14:22	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 14:22	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:22	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 14:22	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 14:22	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 14:22	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 14:22	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 14:22	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 14:22	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 14:22	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 14:22	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 14:22	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 14:22	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 14:22	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 14:22	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:22	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 14:22	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 14:22	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 14:22	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:22	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:22	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 14:22	J

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ANALYTICAL RESULTS

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711729014** Date Received: 11/17/17 08:45 Matrix: Water

Sample ID: **17320-TripBlank-4** Date Collected: 11/16/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/18/2017 14:22	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/18/2017 14:22	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/18/2017 14:22	
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	11/18/2017 14:22	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 14:22	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/18/2017 14:22	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/18/2017 14:22	
Bromofluorobenzene (S)	**109**		**%**	**1**	80-129		11/18/2017 14:22	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1711729 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: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5471 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006

METHOD BLANK: 2536425

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

QC Batch: WCAj/5472 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1711729007, J1711729009, J1711729010, J1711729011, J1711729012, J1711729013

METHOD BLANK: 2536428

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

QC Batch: MSVj/5235 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/17/2017 12:17
Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729008,

METHOD BLANK: 2536556

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	0.24	0.24	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	0.21	0.21	U

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QUALITY CONTROL DATA

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2536556

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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)	%	108	77-119	
Bromofluorobenzene (S)	%	112	86-123	

QC Batch: MSVj/5237 Analysis Method: SW-846 8260B (SIM)

QC Batch Method: SW-846 5030B Prepared: 11/17/2017 12:17

Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729008,

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QUALITY CONTROL DATA

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2536569

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)	%	93	77-125	
Toluene-d8 (S)	%	109	80-121	
Bromofluorobenzene (S)	%	113	80-129	

QC Batch: DGMj/3823 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/21/2017 03:30

Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729009,

METHOD BLANK: 2537511

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Sodium	mg/L	0.34	0.34	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: WCAj/5481 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729009,

METHOD BLANK: 2538090

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				

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QUALITY CONTROL DATA

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2538090

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

QC Batch: DGMj/3841 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 11/27/2017 10:00
Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729009,

METHOD BLANK: 2541331

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

QC Batch: DGMj/3847 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 11/28/2017 03:30
Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729009,

METHOD BLANK: 2542308

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: WCAg/6634 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1711729001, J1711729002, J1711729003, J1711729004, J1711729005, J1711729006, J1711729007, J1711729009,

METHOD BLANK: 2544048

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 CROSS REFERENCE TABLE

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711729001	17320-MW-29A			EPA 300.0	WCAj/5471
J1711729002	17320-MW-29B			EPA 300.0	WCAj/5471
J1711729003	17320-MW-17AR			EPA 300.0	WCAj/5471
J1711729004	17320-MW-17BR			EPA 300.0	WCAj/5471
J1711729005	17320-MW-31A			EPA 300.0	WCAj/5471
J1711729006	17320-MW-31B			EPA 300.0	WCAj/5471
J1711729007	17320-Equipment Blank			EPA 300.0	WCAj/5472
J1711729009	17320-MW-25A			EPA 300.0	WCAj/5472
J1711729010	17320-MW-25B			EPA 300.0	WCAj/5472
J1711729011	17320-CW-1A			EPA 300.0	WCAj/5472
J1711729012	17320-CW-2A			EPA 300.0	WCAj/5472
J1711729013	17320-CW-3A			EPA 300.0	WCAj/5472
J1711729001	17320-MW-29A	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729002	17320-MW-29B	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729003	17320-MW-17AR	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729004	17320-MW-17BR	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729005	17320-MW-31A	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729006	17320-MW-31B	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729007	17320-Equipment Blank	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729008	17320-Trip Blank-3	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729009	17320-MW-25A	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729010	17320-MW-25B	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729011	17320-CW-1A	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729012	17320-CW-2A	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729013	17320-CW-3A	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729014	17320-TripBlank-4	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711729001	17320-MW-29A	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729002	17320-MW-29B	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729003	17320-MW-17AR	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729004	17320-MW-17BR	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729005	17320-MW-31A	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711729006	17320-MW-31B	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729007	17320-Equipment Blank	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729008	17320-Trip Blank-3	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729009	17320-MW-25A	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729010	17320-MW-25B	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729011	17320-CW-1A	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729012	17320-CW-2A	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729013	17320-CW-3A	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729014	17320-TripBlank-4	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711729001	17320-MW-29A	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729002	17320-MW-29B	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729003	17320-MW-17AR	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729004	17320-MW-17BR	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729005	17320-MW-31A	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729006	17320-MW-31B	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729007	17320-Equipment Blank	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729009	17320-MW-25A	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729010	17320-MW-25B	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729011	17320-CW-1A	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729012	17320-CW-2A	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729013	17320-CW-3A	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711729001	17320-MW-29A			SM 2540 C	WCAj/5481
J1711729002	17320-MW-29B			SM 2540 C	WCAj/5481
J1711729003	17320-MW-17AR			SM 2540 C	WCAj/5481
J1711729004	17320-MW-17BR			SM 2540 C	WCAj/5481
J1711729005	17320-MW-31A			SM 2540 C	WCAj/5481
J1711729006	17320-MW-31B			SM 2540 C	WCAj/5481
J1711729007	17320-Equipment Blank			SM 2540 C	WCAj/5481
J1711729009	17320-MW-25A			SM 2540 C	WCAj/5481
J1711729010	17320-MW-25B			SM 2540 C	WCAj/5481
J1711729011	17320-CW-1A			SM 2540 C	WCAj/5481
J1711729012	17320-CW-2A			SM 2540 C	WCAj/5481

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Phone: (904)363-9350
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711729013	17320-CW-3A			SM 2540 C	WCAj/5481
J1711729001	17320-MW-29A	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729002	17320-MW-29B	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729003	17320-MW-17AR	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729004	17320-MW-17BR	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729005	17320-MW-31A	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729006	17320-MW-31B	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729007	17320-Equipment Blank	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729009	17320-MW-25A	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729010	17320-MW-25B	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729011	17320-CW-1A	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729012	17320-CW-2A	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729013	17320-CW-3A	SW-846 7470A	DGMj/3841	SW-846 7470A	CVAj/1655
J1711729001	17320-MW-29A	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729002	17320-MW-29B	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729003	17320-MW-17AR	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729004	17320-MW-17BR	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729005	17320-MW-31A	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729006	17320-MW-31B	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729007	17320-Equipment Blank	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729009	17320-MW-25A	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729010	17320-MW-25B	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729011	17320-CW-1A	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729012	17320-CW-2A	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729013	17320-CW-3A	SW-846 3010A	DGMj/3847	SW-846 6020	ICMj/1800
J1711729001	17320-MW-29A			EPA 350.1	WCAg/6634
J1711729002	17320-MW-29B			EPA 350.1	WCAg/6634
J1711729003	17320-MW-17AR			EPA 350.1	WCAg/6634
J1711729004	17320-MW-17BR			EPA 350.1	WCAg/6634
J1711729005	17320-MW-31A			EPA 350.1	WCAg/6634
J1711729006	17320-MW-31B			EPA 350.1	WCAg/6634

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Phone: (904)363-9350
Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711729 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711729007	17320-Equipment Blank			EPA 350.1	WCAg/6634
J1711729009	17320-MW-25A			EPA 350.1	WCAg/6634
J1711729010	17320-MW-25B			EPA 350.1	WCAg/6634
J1711729011	17320-CW-1A			EPA 350.1	WCAg/6634
J1711729012	17320-CW-2A			EPA 350.1	WCAg/6634
J1711729013	17320-CW-3A			EPA 350.1	WCAg/6634

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☒ Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 3
☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.

J1711729

597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-388-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (ETPS)
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	PRESERVATION	HCL	HNO3	Ice	H2SO4							LABORATORY I.D. NUMBER
	BOTTLE SIZE & TYPE							40 mL Vials	500 mL Plastic	500 mL Plastic	250 mL Plastic							
	ANALYSIS REQUIRED							App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Na	Cl/NO3/TDS	NH3							
17320-MW-29A		Grab	11/16/17	0645	GW	6		3	1	1	1							001
17320-MW-29B		Grab	11/16/17	0620	GW	6		3	1	1	1							002
17320-MW-17AR		Grab	11/16/17	0810	GW	6		3	1	1	1							003
17320-MW-17BR		Grab	11/16/17	0740	GW	6		3	1	1	1							004
17320-MW-31A		Grab	11/16/17	1105	GW	6		3	1	1	1							005
17320-MW-31B		Grab	11/16/17	1015	GW	6		3	1	1	1							006
17320-Equipment Blank		Grab	11/16/17	1040	DI H_2O	6		3	1	1	1							007
17320-Trip Blank-3		Grab	11/16/17	0000	DI H_2O	3		3										008

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 = (H_2SO_4) N = (HNO_3) 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	11/16/17	1700	Fedex		
2	Fedex	11-17-17	0845		11-17-17	0845
3						
4						

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

Monday, December 04, 2017 1:01:05 PM
Page 49 of 51

J1711729

Advanced Environmental Laboratories, Inc.

☐ Altamonte Springs: 528 S. Northlake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
☐ Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639
☒ 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:	813-350-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	
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 Orn. 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							
17320-MW-25A		Grab	11.16.17	1215	GW	6			3	1	1	1							009
17320-MW-25B		Grab	11.16.17	1250	GW	6			3	1	1	1							010
17320-CW-1A		Grab	11.16.17	1355	GW	6			3	1	1	1							011
17320-CW-2A		Grab	11.16.17	1450	GW	6			3	1	1	1							012
17320-CW-3A		Grab	11.16.17	1545	GW	6			3	1	1	1							013
17320-Trip Blank-4																			014

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	Courtney	11.16.17	1700	Fedex		
2	Fedex	11-17	0845	Sample	11-17	0845
3						
4						

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

Monday, December 04, 2017 1:01:05 PM
Page 50 of 51

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D. Landfill

Date/Time Rcvd: 11-17-17 Log-In request number: J1711729

Received by: SC Completed by: BJ

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				
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?	✓		✓ 11-17-17 BJ
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.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711729

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: All acceptance criteria were met.

D. Spikes: The upper control criterion was exceeded for the following analyte in the matrix spike analytical batch 5238: 1,2-Dibromo-3-chloropropane. 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:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711729

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:

D. Spikes: The matrix spike recovery of NH3 for J1711729007 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:

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

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Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711729

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 Nitrate for J1711729009 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The analytes in question were not detected in the client samples. No further corrective action is required.

E. Serial Diluion: All acceptance criteria were met.

F. Samples: Samples J1711729010 and 011 were diluted prior to instrumental analysis. The samples had color, which indicated the need to perform a dilution prior to injection into the instrument.

J1711729012 and 013 were analyzed at the lowest possible dilution due to high Chloride in the sample that could affect the instrument.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

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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

December 19, 2017

Kirk Wills
Waste Connections
5135 Madison Avenue
Tampa, FL 33619

RE: Workorder: J1711733 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, November 17, 2017. 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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Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1711733001	17321-SW-3	Water	11/17/2017 09:00	11/17/2017 12:25
J1711733002	17321-SW-4	Water	11/17/2017 08:40	11/17/2017 12:25
J1711733003	17321-TripBlank-5	Water	11/17/2017 00:00	11/17/2017 12:25

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733001** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-SW-3** Date Collected: 11/17/17 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Analytical Method: Field Measurements							
Salinity	**0**	**U**	**ppt**	**1**			12/1/2017 08:43	J
Temperature	**17.63**		**°C**	**1**			12/1/2017 08:43	J
pH	**5.34**		**SU**	**1**			12/1/2017 08:43	J
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	10	9.0	11/30/2017 12:50	J
Barium	**22**		**ug/L**	**1**	2.0	0.83	11/30/2017 12:50	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 12:50	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 12:50	J
Calcium	**14**		**mg/L**	**1**	0.20	0.082	11/30/2017 12:50	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 12:50	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 12:50	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 12:50	J
Iron	**1100**		**ug/L**	**1**	200	100	11/30/2017 12:50	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 12:50	J
Magnesium	**4.5**		**mg/L**	**1**	0.20	0.085	11/30/2017 12:50	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 12:50	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 12:50	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 12:50	J
Total Hardness (as CaCO3)	**52**		**mg/L**	**1**	0.16	0.10	11/30/2017 12:50	J
Vanadium	**0.55**	**U**	**ug/L**	**1**	1.0	0.55	11/30/2017 12:50	J
Zinc	**11**	**U**	**ug/L**	**1**	20	11	11/30/2017 12:50	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/28/2017 15:30	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/28/2017 15:30	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	11/21/2017 15:22	J
Microbiology								

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733001** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-SW-3** Date Collected: 11/17/17 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Fecal Coliform MF,SM9222D,Water	Analytical Method: SM 9222D							
Coliform Fecal	**20**	**B**	**#/100 mL**	**10**	10	10	11/17/2017 15:30	J
VOLATILES								
Analysis Desc: 8260B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8260B							
1,1,1,2-Tetrachloroethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 14:48	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 14:48	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:48	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 14:48	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 14:48	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:48	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 14:48	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:48	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 14:48	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:48	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 14:48	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 14:48	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 14:48	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 14:48	J
Acetone	**74**		**ug/L**	**1**	5.0	2.1	11/18/2017 14:48	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 14:48	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 14:48	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 14:48	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 14:48	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 14:48	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 14:48	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 14:48	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 14:48	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 14:48	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 14:48	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:48	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 14:48	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 14:48	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 14:48	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 14:48	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 14:48	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 14:48	J

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733001** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-SW-3** Date Collected: 11/17/17 09:00

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	11/18/2017 14:48	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 14:48	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 14:48	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 14:48	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/18/2017 14:48	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 14:48	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:48	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 14:48	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 14:48	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 14:48	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 14:48	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 14:48	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 14:48	J
1,2-Dichloroethane-d4 (S)	**108**		**%**	**1**	70-128		11/18/2017 14:48	
Toluene-d8 (S)	**107**		**%**	**1**	77-119		11/18/2017 14:48	
Bromofluorobenzene (S)	**114**		**%**	**1**	86-123		11/18/2017 14:48	
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	11/18/2017 14:48	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 14:48	J
1,2-Dichloroethane-d4 (S)	**97**		**%**	**1**	77-125		11/18/2017 14:48	
Toluene-d8 (S)	**110**		**%**	**1**	80-121		11/18/2017 14:48	
Bromofluorobenzene (S)	**112**		**%**	**1**	80-129		11/18/2017 14:48	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**1.8**		**mg/L**	**1**	0.10	0.10	12/1/2017 08:41	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0.000050**	**I**	**mg/L**	**1**	0.010	7.1E-7	11/28/2017 14:08	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 15:30	J
Nitrate + Nitrite	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 15:30	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.57**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733001** Date Received: 11/17/17 12:25 Matrix: Water
Sample ID: **17321-SW-3** Date Collected: 11/17/17 09:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							
Total Kjeldahl Nitrogen	**1.8**		**mg/L**	**1**	0.10	0.050	11/22/2017 10:38	G
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.11**		**mg/L**	**1**	0.10	0.050	11/22/2017 10:38	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**73**		**mg/L**	**1**	20	7.2	11/21/2017 11:43	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Chlorophyll A	**1.3**	**I**	**mg/m3**	**1**	5.0	1.0	11/28/2017 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**220**		**mg/L**	**1**	10	10	11/21/2017 09:17	J
Analysis Desc: TSS,SM2540D,Water	Analytical Method: SM 2540D							
Total Suspended Solids	**3.4**		**mg/L**	**1**	2.0	1.0	11/22/2017 09:13	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	11/17/2017 13:04	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**22**		**mg/L**	**1**	1.0	0.25	11/21/2017 12:25	G

Lab ID: **J1711733002** Date Received: 11/17/17 12:25 Matrix: Water
Sample ID: **17321-SW-4** Date Collected: 11/17/17 08:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Analytical Method: Field Measurements							

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733002** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-SW-4** Date Collected: 11/17/17 08:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Salinity	**0**	**U**	**ppt**	**1**			12/1/2017 08:44	J
Temperature	**16.64**		**°C**	**1**			12/1/2017 08:44	J
pH	**4.52**		**SU**	**1**			12/1/2017 08:44	J
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**9.0**	**U**	**ug/L**	**1**	10	9.0	11/30/2017 13:10	J
Barium	**13**		**ug/L**	**1**	2.0	0.83	11/30/2017 13:10	J
Beryllium	**0.40**	**U**	**ug/L**	**1**	0.80	0.40	11/30/2017 13:10	J
Cadmium	**0.45**	**U**	**ug/L**	**1**	1.0	0.45	11/30/2017 13:10	J
Calcium	**4.2**		**mg/L**	**1**	0.20	0.082	11/30/2017 13:10	J
Chromium	**1.6**	**U**	**ug/L**	**1**	3.0	1.6	11/30/2017 13:10	J
Cobalt	**1.9**	**U**	**ug/L**	**1**	4.0	1.9	11/30/2017 13:10	J
Copper	**3.2**	**U**	**ug/L**	**1**	6.0	3.2	11/30/2017 13:10	J
Iron	**1400**		**ug/L**	**1**	200	100	11/30/2017 13:10	J
Lead	**2.9**	**U**	**ug/L**	**1**	6.0	2.9	11/30/2017 13:10	J
Magnesium	**2.1**		**mg/L**	**1**	0.20	0.085	11/30/2017 13:10	J
Nickel	**6.0**	**U**	**ug/L**	**1**	10	6.0	11/30/2017 13:10	J
Selenium	**33**	**U**	**ug/L**	**1**	70	33	11/30/2017 13:10	J
Silver	**9.6**	**U**	**ug/L**	**1**	20	9.6	11/30/2017 13:10	J
Total Hardness (as CaCO3)	**19**		**mg/L**	**1**	0.16	0.10	11/30/2017 13:10	J
Vanadium	**0.55**	**U**	**ug/L**	**1**	1.0	0.55	11/30/2017 13:10	J
Zinc	**16**	**I**	**ug/L**	**1**	20	11	11/30/2017 13:10	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**0.046**	**U**	**ug/L**	**1**	0.70	0.046	11/28/2017 15:34	J
Thallium	**0.057**	**U**	**ug/L**	**1**	0.20	0.057	11/28/2017 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	11/21/2017 15:28	J
Microbiology								
Analysis Desc: Fecal Coliform MF,SM9222D,Water	Analytical Method: SM 9222D							
Coliform Fecal	**380**		**#/100 mL**	**10**	10	10	11/17/2017 15:30	J

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733002** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-SW-4** Date Collected: 11/17/17 08:40

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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 15:14	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 15:14	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 15:14	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 15:14	J
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/18/2017 15:14	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 15:14	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/18/2017 15:14	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 15:14	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 15:14	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 15:14	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/18/2017 15:14	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/18/2017 15:14	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/18/2017 15:14	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/18/2017 15:14	J
Acetone	**2.6**	**I**	**ug/L**	**1**	5.0	2.1	11/18/2017 15:14	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/18/2017 15:14	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 15:14	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/18/2017 15:14	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/18/2017 15:14	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/18/2017 15:14	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 15:14	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 15:14	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 15:14	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 15:14	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 15:14	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 15:14	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/18/2017 15:14	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/18/2017 15:14	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/18/2017 15:14	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 15:14	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 15:14	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/18/2017 15:14	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 15:14	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/18/2017 15:14	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/18/2017 15:14	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/18/2017 15:14	J

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733002** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-SW-4** Date Collected: 11/17/17 08:40

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	11/18/2017 15:14	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/18/2017 15:14	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 15:14	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/18/2017 15:14	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/18/2017 15:14	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/18/2017 15:14	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/18/2017 15:14	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/18/2017 15:14	J
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/18/2017 15:14	J
1,2-Dichloroethane-d4 (S)	**109**		**%**	**1**	70-128		11/18/2017 15:14	
Toluene-d8 (S)	**106**		**%**	**1**	77-119		11/18/2017 15:14	
Bromofluorobenzene (S)	**112**		**%**	**1**	86-123		11/18/2017 15:14	
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	11/18/2017 15:14	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/18/2017 15:14	J
1,2-Dichloroethane-d4 (S)	**98**		**%**	**1**	77-125		11/18/2017 15:14	
Toluene-d8 (S)	**109**		**%**	**1**	80-121		11/18/2017 15:14	
Bromofluorobenzene (S)	**110**		**%**	**1**	80-129		11/18/2017 15:14	
WET CHEMISTRY								
Analysis Desc: Total Nitrogen,Calculated,Water	Analytical Method: Calculation							
Total Nitrogen	**1.6**		**mg/L**	**1**	0.10	0.10	12/1/2017 08:42	G
Analysis Desc: Unionized Ammonia,DEP SOP,Water	Analytical Method: DEP SOP 10/03/83							
Unionized Ammonia	**0.0000053**	**I**	**mg/L**	**1**	0.010	9.9E-8	12/1/2017 08:44	G
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Nitrate	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 16:12	J
Nitrate + Nitrite	**0.050**	**U**	**mg/L**	**1**	0.50	0.050	11/17/2017 16:12	J
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.43**		**mg/L**	**1**	0.010	0.0080	11/28/2017 14:08	G
Analysis Desc: TKN,E351.2,Water	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 351.2							
Total Kjeldahl Nitrogen	**1.6**		**mg/L**	**1**	0.10	0.050	11/22/2017 10:38	G

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733002** Date Received: 11/17/17 12:25 Matrix: Water
Sample ID: **17321-SW-4** Date Collected: 11/17/17 08:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Total Phosphorus,E365.4,Analysis	Preparation Method: Copper Sulfate Digestion Analytical Method: EPA 365.4							
Total Phosphorus (as P)	**0.17**		**mg/L**	**1**	0.10	0.050	11/22/2017 10:38	G
Analysis Desc: COD,E410.4,Water	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**79**		**mg/L**	**1**	20	7.2	11/21/2017 11:43	G
Analysis Desc: Chlorophyll A,SM10200H,Water	Analytical Method: SM 10200 H							
Chlorophyll A	**4.0**	**I**	**mg/m3**	**1**	5.0	1.0	11/28/2017 15:00	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**120**		**mg/L**	**1**	10	10	11/21/2017 09:17	J
Analysis Desc: TSS,SM2540D,Water	Analytical Method: SM 2540D							
Total Suspended Solids	**4.2**		**mg/L**	**1**	2.0	1.0	11/22/2017 09:13	J
Analysis Desc: BOD,SM5210B,Water	Analytical Method: SM 5210B							
Biochemical Oxygen Demand	**2.0**	**U**	**mg/L**	**1**	2.0	2.0	11/17/2017 13:04	J
Analysis Desc: TOC,SM5310B,Water	Analytical Method: SM 5310B							
Total Organic Carbon	**23**		**mg/L**	**1**	1.0	0.25	11/21/2017 12:25	G

Lab ID: **J1711733003** Date Received: 11/17/17 12:25 Matrix: Water
Sample ID: **17321-TripBlank-5** Date Collected: 11/17/17 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	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 23:51	J
1,1,1-Trichloroethane	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 23:51	J
1,1,2,2-Tetrachloroethane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:51	J
1,1,2-Trichloroethane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 23:51	J

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733003**
Sample ID: **17321-TripBlank-5**

Date Received: 11/17/17 12:25 Matrix: Water
Date Collected: 11/17/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1-Dichloroethane	**0.14**	**U**	**ug/L**	**1**	1.0	0.14	11/21/2017 23:51	J
1,1-Dichloroethylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:51	J
1,2,3-Trichloropropane	**0.30**	**U**	**ug/L**	**1**	1.0	0.30	11/21/2017 23:51	J
1,2-Dichlorobenzene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:51	J
1,2-Dichloroethane	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 23:51	J
1,2-Dichloropropane	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:51	J
1,4-Dichlorobenzene	**0.22**	**U**	**ug/L**	**1**	1.0	0.22	11/21/2017 23:51	J
2-Butanone (MEK)	**0.43**	**U**	**ug/L**	**1**	5.0	0.43	11/21/2017 23:51	J
2-Hexanone	**0.44**	**U**	**ug/L**	**1**	5.0	0.44	11/21/2017 23:51	J
4-Methyl-2-pentanone (MIBK)	**0.47**	**U**	**ug/L**	**1**	1.0	0.47	11/21/2017 23:51	J
Acetone	**2.1**	**U**	**ug/L**	**1**	5.0	2.1	11/21/2017 23:51	J
Acrylonitrile	**1.1**	**U**	**ug/L**	**1**	10	1.1	11/21/2017 23:51	J
Benzene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 23:51	J
Bromochloromethane	**0.17**	**U**	**ug/L**	**1**	1.0	0.17	11/21/2017 23:51	J
Bromodichloromethane	**0.25**	**U**	**ug/L**	**1**	1.0	0.25	11/21/2017 23:51	J
Bromoform	**0.43**	**U**	**ug/L**	**1**	1.0	0.43	11/21/2017 23:51	J
Bromomethane	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 23:51	J
Carbon Disulfide	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 23:51	J
Carbon Tetrachloride	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 23:51	J
Chlorobenzene	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 23:51	J
Chloroethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 23:51	J
Chloroform	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:51	J
Chloromethane	**0.21**	**U**	**ug/L**	**1**	1.0	0.21	11/21/2017 23:51	J
Dibromochloromethane	**0.33**	**U**	**ug/L**	**1**	1.0	0.33	11/21/2017 23:51	J
Dibromomethane	**0.26**	**U**	**ug/L**	**1**	1.0	0.26	11/21/2017 23:51	J
Ethylbenzene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 23:51	J
Iodomethane (Methyl Iodide)	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 23:51	J
Methylene Chloride	**2.5**	**U**	**ug/L**	**1**	5.0	2.5	11/21/2017 23:51	J
Styrene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 23:51	J
Tetrachloroethylene (PCE)	**0.36**	**U**	**ug/L**	**1**	1.0	0.36	11/21/2017 23:51	J
Toluene	**0.23**	**U**	**ug/L**	**1**	1.0	0.23	11/21/2017 23:51	J
Trichloroethene	**0.29**	**U**	**ug/L**	**1**	1.0	0.29	11/21/2017 23:51	J
Trichlorofluoromethane	**0.32**	**U**	**ug/L**	**1**	1.0	0.32	11/21/2017 23:51	J
Vinyl Acetate	**0.19**	**U**	**ug/L**	**1**	1.0	0.19	11/21/2017 23:51	J
Vinyl Chloride	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:51	J
Xylene (Total)	**0.53**	**U**	**ug/L**	**1**	2.0	0.53	11/21/2017 23:51	J
cis-1,2-Dichloroethylene	**0.24**	**U**	**ug/L**	**1**	1.0	0.24	11/21/2017 23:51	J
cis-1,3-Dichloropropene	**0.16**	**U**	**ug/L**	**1**	1.0	0.16	11/21/2017 23:51	J
trans-1,2-Dichloroethylene	**0.20**	**U**	**ug/L**	**1**	1.0	0.20	11/21/2017 23:51	J
trans-1,3-Dichloropropylene	**0.18**	**U**	**ug/L**	**1**	1.0	0.18	11/21/2017 23:51	J

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ANALYTICAL RESULTS

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID: **J1711733003** Date Received: 11/17/17 12:25 Matrix: Water

Sample ID: **17321-TripBlank-5** Date Collected: 11/17/17 00:00

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
trans-1,4-Dichloro-2-butene	**1.8**	**U**	**ug/L**	**1**	10	1.8	11/21/2017 23:51	J
1,2-Dichloroethane-d4 (S)	**104**		**%**	**1**	70-128		11/21/2017 23:51	
Toluene-d8 (S)	**109**		**%**	**1**	77-119		11/21/2017 23:51	
Bromofluorobenzene (S)	**111**		**%**	**1**	86-123		11/21/2017 23:51	
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	11/21/2017 23:51	J
Ethylene Dibromide (EDB)	**0.020**	**U**	**ug/L**	**1**	0.10	0.020	11/21/2017 23:51	J
1,2-Dichloroethane-d4 (S)	**94**		**%**	**1**	77-125		11/21/2017 23:51	
Toluene-d8 (S)	**112**		**%**	**1**	80-121		11/21/2017 23:51	
Bromofluorobenzene (S)	**108**		**%**	**1**	80-129		11/21/2017 23:51	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1711733 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.
B	Results based upon colony counts outside the acceptable range.

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: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAj/5470 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2536040

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Biochemical Oxygen Demand	mg/L	2.0	2.0	U

QC Batch: WCAj/5471 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2536425

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Nitrate	mg/L	0.050	0.050	U
Nitrate + Nitrite	mg/L	0.050	0.050	U

QC Batch: MSVj/5235 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/17/2017 12:17
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2536556

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	0.24	0.24	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	0.21	0.21	U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20	U

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QUALITY CONTROL DATA

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2536556

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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)	%	108	77-119	
Bromofluorobenzene (S)	%	112	86-123	

QC Batch: MSVj/5237
Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B
Prepared: 11/17/2017 12:17
Associated Lab Samples: J1711733001, J1711733002

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QUALITY CONTROL DATA

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2536569

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)	%	93	77-125	
Toluene-d8 (S)	%	109	80-121	
Bromofluorobenzene (S)	%	113	80-129	

QC Batch: MICj/2601 Analysis Method: SM 9222D

QC Batch Method: SM 9222D Prepared:

Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2537107

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Microbiology				
Coliform Fecal	#/100 mL	1	1	U

METHOD BLANK: 2537108

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Microbiology				
Coliform Fecal	#/100 mL	1	1	U

QC Batch: DGMj/3823 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 11/21/2017 03:30

Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2537511

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Silver	ug/L	9.6	9.6	U
Arsenic	ug/L	9.0	9.0	U
Barium	ug/L	0.83	0.83	U
Beryllium	ug/L	0.40	0.40	U
Calcium	mg/L	0.082	0.082	U

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Phone: (904)363-9350
Fax: (904)363-9354

QUALITY CONTROL DATA

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2537511

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Cadmium	ug/L	0.45	0.45	U
Cobalt	ug/L	1.9	1.9	U
Chromium	ug/L	1.6	1.6	U
Copper	ug/L	3.2	3.2	U
Iron	ug/L	100	100	U
Magnesium	mg/L	0.085	0.085	U
Nickel	ug/L	6.0	6.0	U
Lead	ug/L	2.9	2.9	U
Selenium	ug/L	33	33	U
Vanadium	ug/L	0.55	0.55	U
Zinc	ug/L	33	33	U

QC Batch: WCAj/5481 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2538090

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

QC Batch: DGMj/3829 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 11/21/2017 09:55
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2538121

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

QC Batch: DGMj/3830 Analysis Method: SW-846 6020
QC Batch Method: SW-846 3010A Prepared: 11/22/2017 03:30
Associated Lab Samples: J1711733001, J1711733002

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QUALITY CONTROL DATA

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2538231

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Antimony	ug/L	0.046	0.046	U
Thallium	ug/L	0.057	0.057	U

QC Batch: WCAg/6589 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2539130

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chemical Oxygen Demand	mg/L	7.2	7.2	U

METHOD BLANK: 2539136

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chemical Oxygen Demand	mg/L	7.2	7.2	U

QC Batch: WCAg/6591 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2539390

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Organic Carbon	mg/L	0.25	0.25	U

QC Batch: MSVj/5250 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 11/21/2017 08:40
Associated Lab Samples: J1711733003

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QUALITY CONTROL DATA

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2539520

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	0.24	0.24	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	0.21	0.21	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	0.20	0.20	U
Trichloroethene	ug/L	0.29	0.29	U
Bromodichloromethane	ug/L	0.25	0.25	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	0.18	0.18	U
1,1,2-Trichloroethane	ug/L	0.30	0.30	U
Toluene	ug/L	0.23	0.23	U
2-Hexanone	ug/L	0.44	0.44	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	0.26	0.26	U
Chlorobenzene	ug/L	0.21	0.21	U
Ethylbenzene	ug/L	0.24	0.24	U
Bromoform	ug/L	0.43	0.43	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	0.30	0.30	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: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2539520

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Xylene (Total)	ug/L	0.53	0.53	U
1,2-Dichloroethane-d4 (S)	%	105	70-128	
Toluene-d8 (S)	%	107	77-119	
Bromofluorobenzene (S)	%	111	86-123	

QC Batch: MSVj/5252 Analysis Method: SW-846 8260B (SIM)
QC Batch Method: SW-846 5030B Prepared: 11/21/2017 08:40
Associated Lab Samples: J1711733003

METHOD BLANK: 2539528

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)	%	95	77-125	
Toluene-d8 (S)	%	111	80-121	
Bromofluorobenzene (S)	%	109	80-129	

QC Batch: WCAj/5493 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2539590

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Suspended Solids	mg/L	1.0	1.0	U

QC Batch: WCAg/6605 Analysis Method: EPA 351.2
QC Batch Method: Copper Sulfate Digestion Prepared: 11/21/2017 16:30
Associated Lab Samples: J1711733001, J1711733002

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QUALITY CONTROL DATA

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

METHOD BLANK: 2540808

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Kjeldahl Nitrogen	mg/L	0.050	0.050	U

METHOD BLANK: 2540809

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Phosphorus (as P)	mg/L	0.050	0.050	U

QC Batch: WCAg/6605 Analysis Method: EPA 365.4
QC Batch Method: Copper Sulfate Digestion Prepared: 11/21/2017 16:30
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2540808

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Kjeldahl Nitrogen	mg/L	0.050	0.050	U

METHOD BLANK: 2540809

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Phosphorus (as P)	mg/L	0.050	0.050	U

QC Batch: WCAg/6634 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Prepared:
Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2544048

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: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

QC Batch: WCAg/6655 Analysis Method: SM 10200 H

QC Batch Method: SM 10200 H Prepared:

Associated Lab Samples: J1711733001, J1711733002

METHOD BLANK: 2547249

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chlorophyll A	mg/m3	1.0	1.0	U

METHOD BLANK: 2547252

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chlorophyll A	mg/m3	1.0	1.0	U

QUALITY CONTROL DATA QUALIFIERS

Workorder: J1711733 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: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711733001	17321-SW-3			SM 5210B	WCAj/5470
J1711733002	17321-SW-4			SM 5210B	WCAj/5470
J1711733001	17321-SW-3			EPA 300.0	WCAj/5471
J1711733002	17321-SW-4			EPA 300.0	WCAj/5471
J1711733001	17321-SW-3	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711733002	17321-SW-4	SW-846 5030B	MSVj/5235	SW-846 8260B	MSVj/5236
J1711733001	17321-SW-3	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711733002	17321-SW-4	SW-846 5030B	MSVj/5237	SW-846 8260B (SIM)	MSVj/5238
J1711733001	17321-SW-3			SM 9222D	MICj/2601
J1711733002	17321-SW-4			SM 9222D	MICj/2601
J1711733001	17321-SW-3	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711733002	17321-SW-4	SW-846 3010A	DGMj/3823	SW-846 6010	ICPj/2387
J1711733001	17321-SW-3			SM 2540 C	WCAj/5481
J1711733002	17321-SW-4			SM 2540 C	WCAj/5481
J1711733001	17321-SW-3	SW-846 7470A	DGMj/3829	SW-846 7470A	CVAj/1649
J1711733002	17321-SW-4	SW-846 7470A	DGMj/3829	SW-846 7470A	CVAj/1649
J1711733001	17321-SW-3	SW-846 3010A	DGMj/3830	SW-846 6020	ICMj/1796
J1711733002	17321-SW-4	SW-846 3010A	DGMj/3830	SW-846 6020	ICMj/1796
J1711733001	17321-SW-3			EPA 410.4	WCAg/6589
J1711733002	17321-SW-4			EPA 410.4	WCAg/6589
J1711733001	17321-SW-3			SM 5310B	WCAg/6591
J1711733002	17321-SW-4			SM 5310B	WCAg/6591

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Fax: (904)363-9354

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1711733 J.E.D LANDFILL (F/K/A OAK HAMM

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1711733003	17321-TripBlank-5	SW-846 5030B	MSVj/5250	SW-846 8260B	MSVj/5251
J1711733003	17321-TripBlank-5	SW-846 5030B	MSVj/5252	SW-846 8260B (SIM)	MSVj/5253
J1711733001	17321-SW-3			SM 2540D	WCAj/5493
J1711733002	17321-SW-4			SM 2540D	WCAj/5493
J1711733001	17321-SW-3	Copper Sulfate Digestion	WCAg/6605	EPA 351.2	WCAg/6606
J1711733002	17321-SW-4	Copper Sulfate Digestion	WCAg/6605	EPA 351.2	WCAg/6606
J1711733001	17321-SW-3	Copper Sulfate Digestion	WCAg/6605	EPA 365.4	WCAg/6607
J1711733002	17321-SW-4	Copper Sulfate Digestion	WCAg/6605	EPA 365.4	WCAg/6607
J1711733001	17321-SW-3			EPA 350.1	WCAg/6634
J1711733002	17321-SW-4			EPA 350.1	WCAg/6634
J1711733001	17321-SW-3			SM 10200 H	WCAg/6655
J1711733002	17321-SW-4			SM 10200 H	WCAg/6655
J1711733001	17321-SW-3	Calculation	CLCg/	Calculation	CLCg/
J1711733001	17321-SW-3	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J1711733001	17321-SW-3	Field Measurements	FLDj/	Field Measurements	FLDj/
J1711733002	17321-SW-4	Calculation	CLCg/	Calculation	CLCg/
J1711733002	17321-SW-4	DEP SOP 10/03/83	WCAg/	DEP SOP 10/03/83	WCAg/
J1711733002	17321-SW-4	Field Measurements	FLDj/	Field Measurements	FLDj/

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☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 •
☐ Tallahassee: 1288 Cedar Center Drive, Tallahassee, F
☐ Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • &

J1711733

7.1597

Client Name:	Waste Connections, Inc.
Address:	5135 Madison Avenue
	Tampa, Florida 33619
Phone:	813-389-1026
FAX:	
Contact:	Kirk Wills
Sampled By:	Joe Terry (EPS)
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	1L Plastic	500 mL Plastic	1L Amber	40 mL Vials	100 ml Cup			LABORATORY I.D. NUMBER
							ANALYSIS REQUIRED	App I VOAs+EDB/DBCP	App I Metals+Fe,Hg,Hardn	BOD/NO3/TDS	TSS	COD/NH3 Unionized/TN/TP	Chlorophyll A	TOC	Fecal Coliform			
							PRESER-VATION	HCL	HNO3	Ice	Ice	H2SO4	Ice	HCL	Na Thio			
17321-SW-3	water temp at sample time: 17.63°C	G	11-17-17	0900	SW	11		X	X	X	X	X	X	X	X			001
17321-SW-4	water temp: 16.64°C	G	11-17-17	0840	SW	11		X	X	X	X	X	X	X	X			002
17321-Trip Blank-5		G	11-17-17	0000	DI H2O	2		X										003

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) 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	11-17-17	1100	[signature]	11/17/17	1130
2	[signature]	11/17/17	1225	[signature]	11-17-17	1225
3						
4						

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

Monday, December 04, 2017 10:51:08 AM

Advanced Environmental Labs Inc

Client: Waste Connections Project name: J.E.D Landfill

Date/Time Rcvd: 11-17-17 12:25 Log-In request number: J1711733

Received by: SC 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.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711733

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: All acceptance criteria were met.

D. Spikes: The upper control criterion was exceeded for the following analyte in the matrix spike analytical batch 5238: 1,2-Dibromo-3-chloropropane. 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:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

_____

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway
Jacksonville, Florida 32216
Office (904) 363-9350
Fax (904) 363-9354

Project No.: J1711733

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:

D. Spikes: The matrix spike recovery of NH3 forJ1711729007 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:

F. Samples: Sample analyses proceeded normally.

G. Other:

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Project No.: J1711733

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: SM 10200 H

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: The relative percent difference (RPD) for the following analyte in the analyses of G1709934001 and J1711733001 was outside control criteria: Chlorophyll A. Samples were analyzed again with failing RPD. No further corrective action was needed.

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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