

Prepared For:



Omni Waste of Osceola County, LLC

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**23rd SEMI-ANNUAL WATER QUALITY
MONITORING REPORT**

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

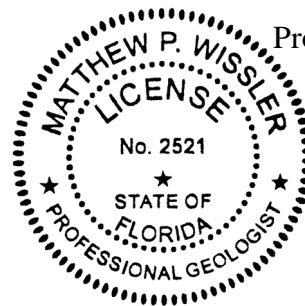
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1. INTRODUCTION

1.1 Terms of Reference

On behalf of Omni Waste of Osceola County, LLC (Omni), Geosyntec Consultants (Geosyntec) has prepared the 23rd semi-annual water quality monitoring report 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 Water Quality Monitoring Plan (Plan) prepared as part of the JED facility permit application. The requirements for executing the Plan were presented in Appendix 3 - Monitoring Plan Implementation Schedule (MPIS) of the current Permit (Permit Number SO49-0199726-022) that authorizes the development of Phases 1 through 4 at the JED facility issued by the Florida Department of Environmental Protection (FDEP) on 12 July 2012.

This report was prepared by Geosyntec on behalf of Progressive Waste Solutions, Inc. (PWS), parent company of Omni Waste of Osceola County, LLC, owner and operator of the JED facility. A completed water quality monitoring certification form (FDEP Form 62-701.900[31]) is included in **Appendix A**.

1.2 Overview

The Plan and the MPIS describe a water quality monitoring program at the JED facility that has as its intent to: (i) measure and report groundwater and surface water conditions for the monitoring network; (ii) monitor the groundwater flow direction; and (iii) monitor the groundwater and surface water quality on a semi-annual basis. The 23rd semi-annual water quality monitoring event was completed from 11 November through 19 November 2015. This report includes presentation and discussions of 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, this report includes a comparison of the analytical results of this sampling event 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, and approximately 6.5 miles south of Holopaw. The facility is a Class I landfill which is linked to highway U.S. 441 by a 2.8-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. The FDEP issued a permit to construct and operate Phase 1 development of the JED facility in October 2003. Phase 1 development includes four landfill cells (Cells 1 through 4), located in the northern part of the landfill encompassing approximately 54 acres. As part of Phase 1, forty-five (45)

groundwater monitoring wells were installed in fifteen (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 FDEP in May 2004. All components of the Phase 1 development have been constructed.

The FDEP issued a permit to construct and operate Phases 2 and 3 at the JED facility in March 2007. The development of Phases 2 and 3 includes six cells (Cells 5 through 10) with a total footprint of approximately 72 acres. As part of Phases 2 and 3 development, and as approved by FDEP, six (6) existing Phase 1 monitoring wells (MW-14 A, B, and C, and MW-15 A, B, and C), and ten (10) piezometers were decommissioned. The wells and piezometers were decommissioned to allow for construction of future cells, construction of a storm water retention basin located within Phases 2 and 3, and due to the close proximity of piezometers to the new network wells installed. The decommissioning of the monitoring wells and piezometers was discussed in the Phases 2 and 3 baseline water quality report. For the development of Phases 2 and 3, twenty-four (24) additional groundwater monitoring wells were installed in eight (8) well clusters (MW-16 through MW-23) around the perimeter of the Phases 2 and 3 development areas in September 2007. The baseline water quality report for the Phases 2 and 3 monitoring well network was submitted to FDEP in January 2008.

The FDEP issued a permit to construct and operate Phases 1 through 3 with vertical expansion at the JED facility in April 2008. In April 2009, the MPIS for the semi-annual water quality monitoring well network and sampling schedule were updated for Phases 1, 2 and 3. The modification included a reduction of the Phase 3 monitoring wells required to be sampled semi-annually until such time that waste placement commences in one of the Phase 3 cells (i.e., Cells 8, 9 and 10) and the sampling schedule was modified for the B-zone (intermediate) and C-zone (deep). These monitoring wells were sampled on an alternating annual basis. The C-zone monitoring wells MW-1 through MW-13, MW-16, MW-19 through MW-23 and B-zone monitoring well MW-16B were sampled in November and reported in January; B-zone monitoring wells MW-1 through MW-13, MW-16, MW-19 through MW-23 and C-zone monitoring well MW-16C were sampled in May and reported in July.

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. The FDEP issued a permit to construct a lateral expansion of the facility on 8 August 2011, which authorizes construction of Phases 3-8, Cells 8-23. 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. The MW-22 cluster abandonment report was submitted to the FDEP in April 2012. The well cluster was replaced in March 2012 and located on the perimeter access road approximately 800 feet south of well cluster MW-23. The shallow, intermediate and deep monitoring wells were designated MW-22RA, MW-

22RB and MW-22RC, respectively. The baseline water quality report for cluster MW-22R was submitted to the FDEP in July 2012.

The Cell 9 disposal area construction was completed in October 2013 and approved by the FDEP in November 2013. As with previous construction and expansion efforts (i.e., Cell 8 disposal area) well cluster MW-20 was installed in a temporary location on the Phase 3 stormwater berm. Cell 9 construction activities included substantial modifications to the berm and as such, a request was made to abandon the well cluster. In addition, MW-16 cluster was abandoned at its temporary location and replaced in a permanent location on the backside of the perimeter berm near the Cell 9 sump. Monitoring well clusters MW-16 and MW-20 were abandoned on 24 June 2013. Replacement monitoring wells MW-16RA, MW-16RB and MW-16RC were installed in October 2013. The monitoring well abandonment and installation report was submitted to the FDEP in November 2013.

A permit minor modification application was submitted to the FDEP on December 24, 2013. The minor modification application was a request to modify the MPIS prior to the initiation of construction of Cell 10 of Phase 3 and Cells 11-13 of Phase 4 as discussed with the FDEP during the 19 November 2013 meeting. 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 4 construction (includes Cells 10, 11, 12 and 13),
- Removal of the “C” zone wells from the semi-annual sampling schedule, and
- Installation of only “A” and “B” zone wells at the new monitoring well cluster locations.

The January 2014 MPIS revision was implemented during the 20th semi-annual groundwater sampling event in May 2014. In an email dated 14 May 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 5 March 2014. The monitoring well abandonment report was submitted to the FDEP on 13 March 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 30 July 2014.

Construction of Cell 11 disposal area began in March 2015. As part of the construction and expansion efforts, detection monitoring well clusters MW-27A/B, MW-28A/B, and MW-29A/B were installed along the outside perimeter of the cell in accordance with the current Monitoring

Plan Implementation Schedule (MPIS) (revised 30 January 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 report was submitted to the FDEP in September 2015.

2. MONITORING WELL DETAILS

2.1 Well Layout and Construction

For the Phase 1 development, forty five (45) groundwater monitoring wells were installed in fifteen (15) 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 well clusters was no greater than 500 feet. For development of Phases 2 and 3, twenty four (24) groundwater monitoring wells were installed in eight (8) 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 monitoring well cluster consisted of three (3) groundwater monitoring wells installed: (i) across the water table to monitor the upper limit of the surficial aquifer (identified as shallow [A-zone] wells); (ii) within the lower limit of the upper surficial aquifer above the intermediate clay layer (identified as deep [C-zone] wells); and (iii) at an intermediate depth between the shallow and deep wells (identified as intermediate [B-zone] wells). For Phase 4, Cell 10 construction, twelve (12) monitoring wells were abandoned (MW-17, MW-18, MW-19 and MW-21 clusters) and six (6) groundwater monitoring wells were installed in three (3) clusters (MW-24 through MW-26) along the interim Phase 4 stormwater berm. The monitoring well placement of MW-24 through MW-26 were approximately 1,400 feet apart. Additionally, monitoring well cluster MW-17R was reinstalled adjacent to Cell 10. In accordance with the January 2014 MPIS revision, the four (4) new monitoring wells consisted of two (2) groundwater monitoring wells installed in the A-zone and B-zone at each clustered location.

A layout depicting the location of groundwater monitoring wells installed for construction Phases 1 through 4 are shown for the A-zone wells on **Figure 1**. As shown, groundwater monitoring well clusters MW-1 through MW-13, MW-16R, MW-17R, MW-22R and MW-23 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 is approximately 92 feet elevation with respect to National Geodetic Vertical Datum of 1929 (NGVD, 1929). Monitoring well clusters MW-24, MW-25 and MW-26 were installed in June 2014 along the interim Phase 4 storm water berm at the southern limit of the Phase 4 development. The ground surface at the location of the wells in the interim Phase 4 berm is approximately 84 feet elevation with respect to NGVD, 1929. Monitoring well clusters MW-27, MW-28, and MW-29 were installed in July 2015 along the eastern storm water berm of cell 11. The locations of each well, in Florida state plane coordinates and latitude/longitude, and elevation NGVD, 1929 were surveyed by professional land surveyors licensed in the State of Florida.

Wells were constructed with 2-inch diameter schedule (SCH) 40 polyvinyl chloride (PVC) casing. The well screens were 10-ft in length with #6-slot (0.006-in.). 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 are presented in **Table 1**.

2.2 Turbidity Issues

As discussed in the baseline water quality reports for the Phase 1, and Phases 2 and 3 monitoring networks, 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 unit (NTU) 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 and FDEP on 12 January 2004 during the well development activities associated with the wells installed as part of the Phase 1 development. Geosyntec notified FDEP again on 14 September 2007 of the elevated turbidity levels even after extended well development during development of the Phases 2 and 3 monitoring wells. In accordance with these discussions, it was agreed to collect field-filtered (1-micron) and unfiltered samples for metals analyses for any sample with a turbidity value greater than 20 NTU. The data generated by the dual sampling is expected to help demonstrate: (i) what effect turbidity may have on metal analyses (i.e., compare total and dissolved metals concentrations); and (ii) whether groundwater samples with turbidities greater than 20 NTU showed higher concentrations of metals than those samples with turbidities less than 20 NTU.

3. MONITORING WELL SAMPLING

3.1 Sampling Locations and Procedures

In accordance with the MPIS, twenty-six (26) monitoring wells installed as part of the Phase 1 development, six (6) monitoring wells installed as part of the Phase 2 and 3 development, and fourteen (14) monitoring wells installed as part of the Phase 4 development were sampled during the 23rd semi-annual sampling event. Monitoring wells sampled this monitoring event included A and B-zone monitoring wells MW-1 through MW-13, MW-16R, MW-17R, MW-22R and MW-23 through MW-29. Low-flow sampling techniques were used for groundwater sample collection. All groundwater sampling was performed in accordance with the current applicable FDEP Standard Operating Procedures (DEP-SOP-001-01, December 2008) for groundwater sampling. Additionally, for quality control (QC) purposes, duplicate samples and trip blanks were collected and analyzed. Peristaltic pumps were used to purge thirty-nine (39) of the monitoring wells with electric submersible pumps purging the remaining seven (7) wells. All of the monitoring wells were purged and sampled with new tubing (silicone and 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; field 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 contained in **Appendix B**. Observations pertaining to the color of the groundwater samples collected were also noted on the sample collection forms. When the field parameters stabilized within the acceptable tolerances required by the FDEP SOP, well purging was considered complete and groundwater samples were collected.

Volatile organic compound (VOC) sample vials were filled directly from the tubing on the discharge end of the peristaltic pump at a flow rate between 100 and 400 milliliters (mL) per minute. The calibration of the water quality monitoring instruments was checked daily and 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**. Trip blank samples accompanied all sample coolers with VOC samples. Temperature blanks were packed in each sample cooler and security seals were affixed to every cooler shipped.

3.2 Sample Analyses

Samples were analyzed by ALS Environmental of Jacksonville, Florida (ALS) in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) standards. ALS

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 ALS 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 (pH; temperature; conductivity; turbidity; ORP; and dissolved oxygen) were measured in the field during collection of the groundwater samples.

4. ANALYTICAL RESULTS

4.1 Field Parameters

Table 2 provides a summary of the field measurements of the required water quality parameters utilized for determining sample stability for this semi-annual monitoring event. The secondary drinking water standard (SDWS) range for pH is between 6.5 and 8.5 standard units (SU). The groundwater pH was below the SDWS in every monitoring well. The pH ranged from 4.26 to 6.42 SU. The low values may be attributable to the shallow nature of the monitoring wells and the infiltration of low pH precipitation. The median pH concentration for precipitation in Florida (based on 1,217 data points at 6 rainfall monitoring stations located statewide) is 4.77 SU (Maddox, et.al., 1992). The data obtained from the monitoring wells are consistent with what would be expected in shallow groundwater from this environment. The groundwater pH values measured at the site have historically been below the SDWS lower limit of 6.5 SU.

4.2 Groundwater Monitoring Wells

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). Any parameter exceeding the applicable groundwater standard has been highlighted **orange**. Detection reported above the PQL but below the groundwater standard have been highlighted **green**. The following discussion regarding groundwater quality is limited to those parameters where the groundwater standard was exceeded in at least one groundwater monitoring well and has been organized by analytical method.

Total Metals (Methods 6020 and 6010B)

Iron

Iron was reported above the SDWS of 300 µg/L in twenty one (21) out of twenty three (23) of the A-zone monitoring wells sampled. Only MW-22AR and MW-23A had iron concentrations below GCTL (290 µg/L and 150 µg/L respectively). Concentrations at the remaining wells ranged between 460 and 23,000 µg/L, with the highest concentration from MW-8A. Iron was detected above the SDWS in all twenty three (23) of the B-zone monitoring wells sampled this event with concentrations ranging between 370 and 43,300 µg/L, with the highest concentration from MW-3B. Iron has historically exceeded the SDWS in all wells at the site for all monitoring events including the baseline events. The iron concentrations reported for the 23rd semi-annual event are consistent with period of record data.

Sodium

Sodium was detected above the primary drinking water standard (PDWS) of 160 mg/L in shallow monitoring well MW-1A (248 mg/L), however, has indicated a downward trend since the 19th semi-annual water quality monitoring event. The remaining monitoring wells are consistent with period of record data.

Ammonia-N (Method 350.1)

Ammonia-N was reported above the GCTL of 2.8 mg/L in twelve (12) of the A-zone monitoring wells sampled this event with the highest concentration from MW-3A (14.7 mg/L). The GCTL for Ammonia-N was exceeded in B-zone monitoring wells MW-3B (5.18 mg/L), MW-4B (3.16 mg/L), MW-5B (2.45 mg/L), and MW-10B (4.88 mg/L).

As indicated in correspondence by HDR, (Class I Permit Renewal Request for Additional Information – January 2012), given that the JED facility is a double geosynthetically lined landfill including a witness zone (secondary liner), an alternative and probable source of ammonia in groundwater at the JED facility includes naturally occurring sources of nitrogen containing compounds present in the organic rich soils. Under the right biogeochemical conditions, nitrogen containing compounds can be converted to ammonia under reducing geochemical conditions. Reducing conditions can be formed in a variety of ways including, shadow effect due to reduction of oxygen rich precipitation infiltration over a large area, displacement of oxygen by landfill gas immediately above the water table, and release of organic matter which promotes the growth of microorganisms which can consume oxygen.

As HDR noted, reductive dissolution is a plausible explanation for the detection of ammonia at the facility. Researchers have recently found good correlation with arsenic and ammonia with iron which supports the concept of reductive dissolution of iron hydroxide as a dominant reaction mobilizing these compounds in groundwater. The reductive dissolution of iron and the associated mobilization of iron in groundwater are well documented in literature. More recent research demonstrates this same mechanism can explain the release of arsenic at landfills. The mechanisms of iron and arsenic chemistry are well established; however, the presence of ammonia in groundwater at landfills has only recently been evaluated.

It has been reported that ammonium will co-precipitate with iron. Conversely as a result of reductive dissolution, ammonium would be mobilized in the groundwater if no other adsorption sites are readily available for the ammonium cation. As a cation, ammonium may be bound to soil particles through ion exchange. If high concentrations of Fe⁺² are released (such as those that occur during reductive dissolution), an increase in ammonium ion concentrations in groundwater would be expected.

A large scale leachate release would produce pronounced concentration increases in groundwater, but the increases in ammonia seem to occur at the onset of construction without correlation to the filling sequence. Neither the constituents nor the concentrations detected in groundwater appear to correlate well with leachate. As discussed in the 5th Technical Report on Water Quality, if detections in groundwater were due to a direct leachate release, the concentrations of various indicator constituents (such as chloride, sodium etc.) found in groundwater should be relatively proportional to those found in leachate samples, particularly given the close proximity of the groundwater wells to the leachate sumps, however this is not the case. The VOC's (and concentrations) detected in leachate are markedly different than the VOC fingerprint at individual wells (which further supports landfill gas as the source of the benzene in groundwater). A direct release of leachate should also indicate proportional levels of other indicator compounds such as sodium, chloride and metals concurrent with ammonia.

Although ammonia is considered a common leachate indicator, no definitive evidence of a leachate discharge exists. The preponderance of evidence does support the concept that the source of ammonia is from reductive dissolution reactions mobilizing ammonia present in site soils. Shallow groundwater at the site is strongly reducing favoring the process of reductive dissolution.

Total Dissolved Solids (Method SM 2540C)

TDS was detected above the SDWS of 500 mg/L in seven (7) A-zone monitoring wells ranging from 601 mg/L to 1,490 mg/L (MW-8A) and in eight (8) B-zone monitoring wells ranging from 571 mg/L to 1,740 mg/L (MW-5B). 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.

Chloride (Method 300.0)

Chloride was detected above the SDWS of 250 mg/L in shallow monitoring well MW-1A (472 mg/L), however, has indicated a downward trend since the 19th semi-annual water quality monitoring event. The remaining monitoring wells are consistent with period of record data.

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

Benzene was detected above the PDWS of 1.0 µg/L in ten (10) A-zone monitoring wells with the highest concentration from MW-9A (12 µg/L) and in one (1) B-zone monitoring well (MW-1B [1.2 µg/L]).

As indicated in correspondence by HDR (Class I Permit Renewal Request for Additional Information – January 2012) and by Geosyntec (Groundwater Contamination and Landfill Gas Migration Investigation and Assessment – December 2013) the source of benzene in groundwater is likely attributed to landfill gas. As noted in the previous discussion for detections of Ammonia-

N, neither the constituents nor the concentrations of VOC's detected in groundwater appear to correlate well with leachate results. As discussed in the 5th Technical Report on Water Quality, if detections in groundwater were due to a direct leachate release, the concentrations of various indicator constituents (such as chloride, sodium etc.) found in groundwater should be relatively proportional to those found in leachate samples, particularly given the close proximity of the groundwater wells to the leachate sumps, however this is not the case with the exception of at MW-1A. The VOC's (and concentrations) detected in leachate are markedly different than the VOC fingerprint at individual wells (which further supports landfill gas as the source of the benzene in groundwater).

4.3 Data Validation

All analyses were performed within the method specified holding times. Two duplicate samples were collected during the 23rd semi-annual monitoring event. The duplicate samples were collected at monitoring wells MW-1A and MW-12A. Results of the duplicate samples are included in **Table 3**. Duplicate sample bottles were collected immediately following the original samples to assure near identical conditions were maintained during sampling. In addition, an equipment blank was collected in the field using a peristaltic pump with new tubing (silicone and high density polyethylene). De-ionized water supplied by ALS was pumped through the tubing and analyzed for the same parameters as the groundwater samples. Analysis of the equipment blank sample resulted in a detection of ammonia (0.015 mg/L), copper (1.1 µg/L), nickel (0.7 µg/L), chloroform (2.4 µg/L), methylene chloride (10 µg/L), tetrachloroethene (0.24 µg/L), and toluene (0.69 µg/L). The surrogate recovery, trip blanks, method blanks, matrix spike and matrix spike duplicates were within acceptable criterion on each laboratory report.

4.4 Impact of Turbidity on Metals Concentrations

In monitoring wells where purging was performed using a peristaltic pump, the minimum purge requirements were adequate to achieve turbidity levels less than the FDEP guidance of 20 NTU. In the seven (7) monitoring wells where purging was performed using electric submersible pumps, turbidity was elevated above 20 NTU in four (4) wells (MW-25B [143 NTU], MW-26B [44 NTU], MW-27B [133 NTU], and MW-28B [169 NTU]).

5. GROUNDWATER LEVEL MEASUREMENTS AND FLOW DIRECTION

5.1 Field Measurements

Groundwater level measurements were obtained on 11 November 2015 from Phases 1 through 4 groundwater monitoring wells and the remaining piezometers installed as part of the original site hydrogeological investigation. The groundwater level measurements were made within an approximate 4-hr period. The groundwater level measurements and calculated groundwater elevation from the monitoring wells and piezometers are presented in **Table 4**.

5.2 Water Level Contours

The water level contour map prepared from groundwater level measurements for the surficial aquifer in the A-zone (shallow) is presented in **Figure 1**. Historically, the direction of the horizontal component of groundwater flow for all three zones is predominantly east-northeast towards Bull Creek. The groundwater elevation data collected on 11 November 2015 from the A-zone monitoring well network indicates the direction of groundwater flow on the southern portion of the site remains predominantly to the east/northeast. Although high surface water levels prevented groundwater level measurement from the five (5) A-zone monitoring wells and piezometers in the southeast portion of the Site. Groundwater flow in the northern portion of the Site remains predominantly east-northeast toward Bull Creek.

Historically, comparison of water levels between the A, B and C wells shows a similar vertical gradient ($1E^{-3}$ ft/ft). These gradients are consistent with the regional gradient in the upper surficial aquifer and indicate an interconnected, sluggish flow regime in the saturated zone above the Intermediate Confining Unit (ICU).

6. SURFACE WATER SAMPLING

6.1 Sampling Locations and Procedures

Two (2) surface water sampling locations established during the initial hydrogeological investigation were selected by 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. At the time of completion of the 23rd semi-annual water quality monitoring event, no flow was observed in Bull Creek.

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, TDS and chloride above the GCTLs in specific groundwater monitoring wells have been discussed in detail in the 1st, 2nd, 3rd, 4th, and 5th Technical Reports on Water Quality (November 2006, September 2008, November 2010, November 2011 and July 2014 respectively). As discussed in Section 4.2, it is likely that the iron and ammonia are not related to a leachate release from the disposal boundary, but rather mobilization of these constituents due to the presence of nitrogen containing compounds under reducing conditions. Our recommendation is to continue to monitor these constituents as part of the current MPIS.

The detections of sodium and chloride above the GCTLs in groundwater monitoring well MW-1A have indicated a downward trend since the 19th semi-annual water quality monitoring event when these detections peaked. Sodium and chloride are leachate indicator parameters; however the concentrations seen in MW-1A are well below those observed in past leachate analyses. A release of leachate is not suspected to be the cause of the increased sodium and chloride. Rather, these detections are likely due to stormwater runoff and cover soil erosion from uncapped areas that occurred within the past year directly upslope of the Cell 5 sump area and MW-1A. Omni has assessed the stormwater drainage issues in this area and has installed additional stormwater downpiping and an outfall structure in this area. These improvements are expected to correct stormwater drainage issues in the vicinity of MW-1A and therefore, the concentrations of sodium and chloride are expected to continue to decrease in this well over time. Our recommendation is to continue to monitor these constituents as part of the current MPIS.

Compliance evaluation monitoring activities were initiated in November 2013 to further assess groundwater conditions adjacent to MW-3A, MW-10A and MW-11A. These activities included the installation of compliance assessment wells CW-1A, CW-2A and CW-3A at the locations indicated on **Figure 1**. The monitoring well installation details, sample analyses and reporting was provided under separate cover. Based on the results of the four quarterly sampling events for the compliance assessment wells, significant VOC levels were not detected and the evaluation monitoring program is complete.

Our recommendation is to continue semi-annual monitoring as stipulated in the current MPIS.

TABLES

Table 1 (1 of 3)

**SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
23rd 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 10 July 2007											
MW-15A	Monitoring Well Abandoned 10 July 2007											
MW-16A	Monitoring Well Abandoned 24 June 2013											
MW-16RA	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 5 March 2014											
MW-17AR	28 03 42.3	82 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 5 March 2014											
MW-19A	Monitoring Well Abandoned 5 March 2014											
MW-20A	Monitoring Well Abandoned 24 June 2013											
MW-21A	Monitoring Well Abandoned 5 March 2014											
MW-22A	Monitoring Well Abandoned 11 November 2011											
MW-22RA	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	28 03 26.5	82 05 58.4	29176	19-Jun-14	87.06	23.3	13	23	74.1	64.1	12	11
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

Table 1 (2 of 3)

**SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
23rd 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 10 July 2007											
MW-15B	Monitoring Well Abandoned 10 July 2007											
MW-16B	Monitoring Well Abandoned 24 June 2013											
MW-16RB	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 5 March 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 5 March 2014											
MW-19B	Monitoring Well Abandoned 5 March 2014											
MW-20B	Monitoring Well Abandoned 24 June 2013											
MW-21B	Monitoring Well Abandoned 5 March 2014											
MW-22B	Monitoring Well Abandoned 11 November 2011											
MW-22RB	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	28 03 27.0	82 05 25.9	29177	19-Jun-14	86.83	42.9	32.5	42.5	54.3	44.3	31.5	30.5
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

Table 1 (3 of 3)

**SUMMARY OF MONITORING WELL CONSTRUCTION DETAILS
23rd 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 10 July 2007											
MW-15C	Monitoring Well Abandoned 10 July 2007											
MW-16C	Monitoring Well Abandoned 24 June 2013											
MW-16RC	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 5 March 2014											
MW-18C	Monitoring Well Abandoned 5 March 2014											
MW-19C	Monitoring Well Abandoned 5 March 2014											
MW-20C	Monitoring Well Abandoned 24 June 2013											
MW-21C	Monitoring Well Abandoned 5 March 2014											
MW-22C	Monitoring Well Abandoned 11 November 2011											
MW-22RC	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

Table 2

**SUMMARY OF FINAL FIELD PARAMETER RESULTS AND FIELD DATA
23rd SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY**

Monitoring Well	Temperature (°C) ¹	pH (Standard Units)	Specific Conductance (uS/cm) ²	Turbidity (NTUs) ³	Oxidation-Reduction Potential (mV) ⁴	Dissolved Oxygen (mg/L) ⁵	Purging Method
MW-1A	26.87	4.44	1,916	3.8	26.3	1.13	Peristaltic Pump
MW-2A	26.46	4.18	1,027	0.7	64.2	1.23	Peristaltic Pump
MW-3A	27.86	5.60	1,113	2.2	7.5	0.76	Peristaltic Pump
MW-4A	27.38	5.48	1,192	12.6	-14.6	1.27	Peristaltic Pump
MW-5A	26.22	4.84	210	10.4	58.5	0.84	Peristaltic Pump
MW-6A	26.51	4.38	421	1.7	65.6	0.90	Peristaltic Pump
MW-7A	25.62	5.05	361	0.6	-17.8	1.44	Peristaltic Pump
MW-8A	26.07	4.20	1,718	3.2	9.9	1.40	Peristaltic Pump
MW-9A	28.50	5.32	336	8.5	-23.3	1.21	Peristaltic Pump
MW-10A	26.64	5.16	381	2.3	5.3	1.09	Peristaltic Pump
MW-11A	27.28	4.73	452	2.2	14.0	1.01	Peristaltic Pump
MW-12A	27.86	4.38	219	2.8	57.9	3.82	Peristaltic Pump
MW-13A	27.77	5.21	627	1.4	28.7	0.93	Peristaltic Pump
MW-16AR	27.51	5.06	521	1.2	-21.9	0.91	Peristaltic Pump
MW-17AR	25.98	4.57	259	0.4	28.8	0.73	Peristaltic Pump
MW-22AR	25.88	5.67	916	0.7	-75.2	1.17	Peristaltic Pump
MW-23A	27.05	5.65	1,314	1.2	-58.2	1.39	Peristaltic Pump
MW-24A	25.69	4.62	88	0.0	69.5	0.78	Peristaltic Pump
MW-25A	26.07	4.73	537	0.0	1.8	0.62	Peristaltic Pump
MW-26A	26.35	5.04	156	10.2	18.5	0.50	Peristaltic Pump
MW-27A	26.99	4.77	107	0.0	29.1	0.49	Peristaltic Pump
MW-28A	26.30	4.94	162	17.1	37.4	0.74	Peristaltic Pump
MW-29A	25.67	4.58	242	0.0	82.3	0.74	Peristaltic Pump
MW-1B	26.33	4.09	1,507	0.9	42.9	1.32	Peristaltic Pump
MW-2B	25.80	4.25	574	0.8	75.4	1.14	Peristaltic Pump
MW-3B	27.00	4.36	1,812	1.5	43.8	0.99	Peristaltic Pump
MW-4B	27.38	4.19	1,884	1.4	39.7	0.77	Peristaltic Pump
MW-5B	25.42	4.00	1,773	0.7	154.1	0.92	Peristaltic Pump
MW-6B	25.99	4.54	75	0.4	57.8	1.02	Peristaltic Pump
MW-7B	25.45	4.13	1,150	9.7	50.2	1.43	Peristaltic Pump
MW-8B	25.31	4.21	1,149	0.9	51.3	1.26	Peristaltic Pump
MW-9B	26.81	4.23	895	0.7	65.6	1.18	Peristaltic Pump
MW-10B	25.54	3.96	1,080	0.8	49.0	1.01	Peristaltic Pump
MW-11B	26.36	4.87	91	4.4	35.1	1.17	Peristaltic Pump
MW-12B	26.63	4.81	94	0.3	46.4	3.20	Peristaltic Pump
MW-13B	26.89	4.76	124	0.9	69.5	1.44	Peristaltic Pump
MW-16BR	26.05	4.86	67	3.3	15.6	1.22	Peristaltic Pump
MW-17BR	24.97	4.97	189	3.7	11.5	0.95	Submersible Pump
MW-22BR	24.97	4.45	212	1.4	69.6	0.80	Peristaltic Pump
MW-23B	26.40	4.16	896	0.5	98.0	1.05	Peristaltic Pump
MW-24B	23.95	4.30	48	3.6	85.8	0.64	Submersible Pump
MW-25B	24.29	4.82	137	143.0	0.6	0.62	Submersible Pump
MW-26B	23.91	5.12	106	44.0	25.4	0.42	Submersible Pump
MW-27B	24.42	5.26	180	133.0	5.6	0.66	Submersible Pump
MW-28B	24.46	5.28	146	169.0	-10.4	0.81	Submersible Pump
MW-29B	24.09	4.80	284	0.0	11.5	0.57	Submersible Pump

Notes:

¹ °C = degrees Celsius² uS/cm = micro Siemens per centimeter³ NTU = Nephelometric Turbidity Units⁴ mV = millivolts⁵ mg/L = milligram per liter

Table 4
(1 of 4)
GROUNDWATER LEVEL MEASUREMENTS
23rd 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, 70°F			
Date: 11-Nov-2015						
Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
DP-1						Piezometer Abandoned 3 October 2003
DP-2						Piezometer Abandoned 3 October 2003
DP-3						Piezometer Abandoned 16 January 2006
DP-4						Piezometer Abandoned 16 January 2006
DP-5						Piezometer Abandoned 10 July 2007
DP-6						Piezometer Abandoned 10 July 2007
DP-7						Piezometer Abandoned 10 July 2007
DP-8						Piezometer Abandoned 10 July 2007
DP-9						Piezometer Abandoned 10 July 2007
DP-10						Piezometer Abandoned 10 July 2007
DP-11						Piezometer Abandoned 10 July 2007
DP-12						Piezometer Abandoned 10 July 2007
DP-13						Piezometer Abandoned 11 July 2007
DP-14						Piezometer Abandoned 2 March 2015
DP-15						Piezometer Abandoned 2 March 2015
DP-16	--	82.57	--	18.53	NM	
DP-17	--	82.58	--	53.75	NM	
DP-18	9:45	84.38	5.02	52.90	79.36	
DP-19	9:45	84.34	5.05	18.40	79.29	
DP-20	--	83.07	--	18.35	NM	
DP-21	--	83.00	--	53.68	NM	
DP-22	7:10	81.00	2.55	18.63	NM	
DP-23	7:10	81.27	2.78	53.73	NM	
DP-24	--	82.22	--	18.52	NM	
SZ-1						Piezometer Abandoned 10 July 2007
SZ-2	--	83.16	--	75.39	NM	
SZ-3	7:10	81.27	4.86	78.85	NM	
MW-1A	9:29	95.12	15.08	23.19	80.04	
MW-1B	9:27	95.00	15.00	48.11	80.00	
MW-1C	9:25	95.18	15.25	74.63	79.93	
MW-2A	9:20	95.21	15.29	22.89	79.92	
MW-2B	9:20	95.17	15.27	48.31	79.90	
MW-2C	9:20	95.32	15.47	68.59	79.85	
MW-3A	9:15	94.64	14.74	23.02	79.90	
MW-3B	9:15	94.68	14.64	47.89	80.04	
MW-3C	9:15	94.66	14.67	69.02	79.99	

Table 4
(2 of 4)
GROUNDWATER LEVEL MEASUREMENTS
23rd 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, 70°F			
Date: 11-Nov-2015						
Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-4A	9:00	95.48	15.33	23.33	80.15	
MW-4B	9:00	95.18	15.09	47.69	80.09	
MW-4C	9:00	95.39	15.46	72.73	79.93	
MW-5A	8:35	95.32	15.90	22.76	79.42	
MW-5B	8:35	95.30	15.95	47.36	79.35	
MW-5C	8:35	95.39	16.35	73.32	79.04	
MW-6A	8:27	94.72	16.49	22.88	78.23	
MW-6B	8:27	94.60	16.35	47.73	78.25	
MW-6C	8:27	94.58	16.40	73.28	78.18	
MW-7A	8:20	95.48	17.29	23.58	78.19	
MW-7B	8:20	95.27	17.05	48.18	78.22	
MW-7C	8:20	94.93	16.83	73.55	78.10	
MW-8A	8:15	94.67	16.54	22.76	78.13	
MW-8B	8:15	94.58	16.50	49.50	78.08	
MW-8C	8:15	94.50	16.59	73.99	77.91	
MW-9A	8:10	94.66	16.77	22.63	77.89	
MW-9B	8:10	94.63	16.77	49.33	77.86	
MW-9C	8:10	94.54	16.83	73.99	77.71	
MW-10A	8:05	96.25	18.18	22.43	78.07	
MW-10B	8:05	96.23	18.19	48.48	78.04	
MW-10C	8:05	96.36	18.43	73.83	77.93	
MW-11A	8:00	93.56	15.43	22.89	78.13	
MW-11B	8:00	93.59	15.69	48.03	77.90	
MW-11C	8:00	93.65	15.77	73.78	77.88	
MW-12A	7:55	95.10	16.90	23.27	78.20	
MW-12B	7:55	95.01	16.92	49.19	78.09	
MW-12C	7:55	95.10	17.06	73.79	78.04	
MW-13A	7:45	95.19	16.78	22.79	78.41	
MW-13B	7:45	95.12	16.71	47.46	78.41	
MW-13C	7:45	95.04	16.74	73.26	78.30	
MW-14A	Monitoring Well Abandoned 10 July 2007					
MW-14B	Monitoring Well Abandoned 10 July 2007					
MW-14C	Monitoring Well Abandoned 10 July 2007					
MW-15A	Monitoring Well Abandoned 10 July 2007					
MW-15B	Monitoring Well Abandoned 10 July 2007					
MW-15C	Monitoring Well Abandoned 10 July 2007					

Table 4

(3 of 4)

GROUNDWATER LEVEL MEASUREMENTS
23rd SEMI-ANNUAL WATER QUALITY MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY

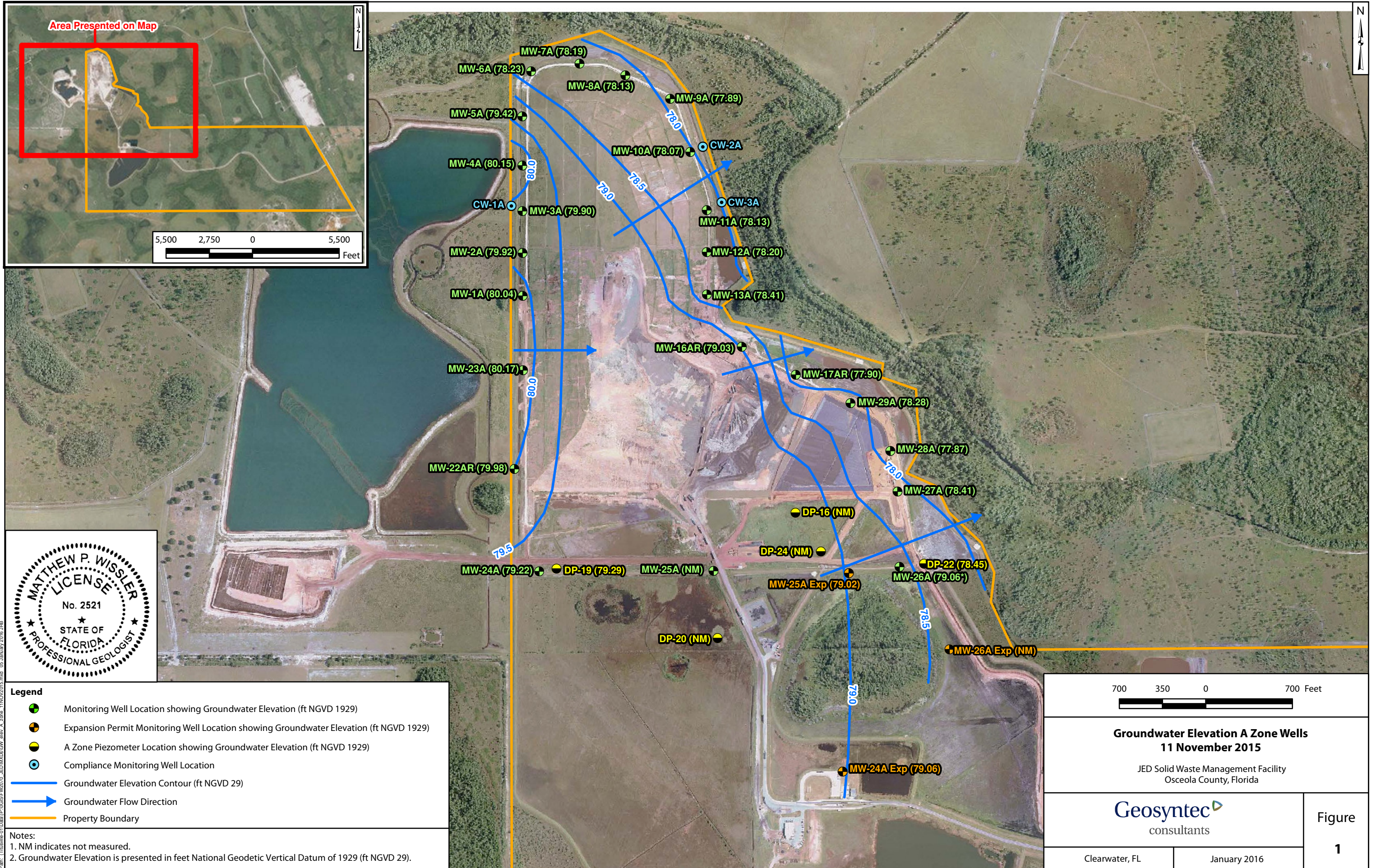
Site Name: JED Solid Waste Management Facility			Sampling Personnel: Joe Terry			
Location: Osceola County, Florida			Field Conditions: mostly sunny, 70°F			
Date: 11-Nov-2015						
Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-16A						Monitoring Well Abandoned 24 June 2013
MW-16B						Monitoring Well Abandoned 24 June 2013
MW-16C						Monitoring Well Abandoned 24 June 2013
MW-16AR	7:35	95.01	15.98	21.00	79.03	
MW-16BR	7:35	94.97	16.56	44.00	78.41	
MW-16CR	7:35	95.03	16.72	73.00	78.31	
MW-17AR	7:32	94.84	16.94	24.07	77.90	
MW-17BR	7:32	94.78	16.81	48.45	77.97	
MW-17A						Monitoring Well Abandoned 5 March 2014
MW-17B						Monitoring Well Abandoned 5 March 2014
MW-17C						Monitoring Well Abandoned 5 March 2014
MW-18A						Monitoring Well Abandoned 5 March 2014
MW-18B						Monitoring Well Abandoned 5 March 2014
MW-18C						Monitoring Well Abandoned 5 March 2014
MW-19A						Monitoring Well Abandoned 5 March 2014
MW-19B						Monitoring Well Abandoned 5 March 2014
MW-19C						Monitoring Well Abandoned 5 March 2014
MW-20A						Monitoring Well Abandoned 24 June 2013
MW-20B						Monitoring Well Abandoned 24 June 2013
MW-20C						Monitoring Well Abandoned 24 June 2013
MW-21A						Monitoring Well Abandoned 5 March 2014
MW-21B						Monitoring Well Abandoned 5 March 2014
MW-21C						Monitoring Well Abandoned 5 March 2014
MW-22A						Monitoring Well Abandoned 11 November 2011
MW-22B						Monitoring Well Abandoned 11 November 2011
MW-22C						Monitoring Well Abandoned 11 November 2011
MW-22AR	9:36	95.00	15.02	23.66	79.98	
MW-22BR	9:36	94.86	14.84	46.13	80.02	
MW-22CR	9:36	95.13	15.09	66.58	80.04	
MW-23A	9:31	97.90	17.73	28.03	80.17	
MW-23B	9:31	97.91	17.73	43.00	80.18	
MW-23C	9:31	97.93	17.76	67.32	80.17	
MW-24A	9:40	87.06	7.84	23.46	79.22	
MW-24B	9:40	87.05	7.87	43.10	79.18	
MW-25A	--	86.99	--	23.39	NM	not measured.
MW-25B	9:45	86.67	6.95	41.48	79.72	
MW-26A	7:05	87.06	8.00	23.34	79.06	
MW-26B	7:05	86.83	8.18	42.87	78.65	
MW-24A Exp	14:20	86.97	7.91	24.21	79.06	
MW-25A Exp	7:00	82.36	3.34	24.76	79.02	
MW-26A Exp	--	82.01	--	24.03	NM	
MW-27C Exp	--	81.66	--	58.37	NM	

Table 4
(4 of 4)

GROUNDWATER LEVEL MEASUREMENTS
23rd 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, 70°F				
Date: 11-Nov-2015						
Well ID	Time	TOC Elevation	Depth to Water (ft)	Well Depth (ft)	GW Elevation	Field Observations
MW-27A	7:15	94.68	16.27	23.62	78.41	
MW-27B	7:15	94.66	16.17	46.77	78.49	
MW-28A	7:20	94.77	16.90	24.00	77.87	
MW-28B	7:20	94.68	16.78	48.65	77.90	
MW-29A	7:27	94.88	16.60	23.73	78.28	
MW-29B	7:27	94.67	17.04	48.81	77.63	

FIGURE



Area Presented on Map

5,500 2,750 0 5,500
Feet



Legend

- Monitoring Well Location showing Groundwater Elevation (ft NGVD 1929)
- Expansion Permit Monitoring Well Location showing Groundwater Elevation (ft NGVD 1929)
- A Zone Piezometer Location showing Groundwater Elevation (ft NGVD 1929)
- Compliance Monitoring Well Location
- Groundwater Elevation Contour (ft NGVD 29)
- Groundwater Flow Direction
- Property Boundary

Notes:

1. NM indicates not measured.
2. Groundwater Elevation is presented in feet National Geodetic Vertical Datum of 1929 (ft NGVD 29).

700 350 0 700 Feet

**Groundwater Elevation A Zone Wells
11 November 2015**

JED Solid Waste Management Facility
Osceola County, Florida

Geosyntec
consultants

Figure

1

Clearwater, FL

January 2016

Path: \\thruwell\01\Data\GIS\Map\FW2015\JED_MXD\GW_elev_A_zone_11NOV2015.mxd 05 January 2016 JPB

APPENDIX A

**Water Quality Monitoring Certification
FDEP Form 62-701.900(31)**



Florida Department of Environmental Protection

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

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

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

- (1) Facility Name J.E.D. Solid Waste Management Facility
Address 1501 Omni Way
City Saint Cloud Zip 34773 County Osceola
Telephone Number (407) 891-3720
- (2) WACS Facility ID 89544
- (3) DEP Permit Number SO49-0199726-022
- (4) Authorized Representative's Name Mike Kaiser Title Engineer
Address 1099 Miller Drive
City Altamonte Springs Zip 32701 County Seminole
Telephone Number (904) 673-0446
Email address (if available) michael.kaiser@progressivewaste.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.

2/1/16
(Date)

Michael A. Kaiser
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

- Sampling Organization Progressive Waste Solutions of FL, Inc.
- Analytical Lab NELAC / HRS Certification # E82502
- Lab Name ALS Environmental
- Address 9143 Philips Highway, Suite 200 Jacksonville, Florida 32256
- Phone Number (904) 739-2277
- Email address (if available) Mike.Kimmel@ALSGlobal.com



Progressive Waste Solutions
2301 Eagle Parkway, Suite 200
Fort Worth, TX 76177

June 1, 2015

To Whom it May Concern:

I, Kevin C. Walbridge, hereby certify that I am a responsible corporate officer of Omni Waste of Osceola County, LLC. I hereby duly authorize Michael Kaiser, whose signature appears below, to be my representative and authorize him to sign all permit applications, modifications, and financial assurance and reporting documents for Omni Waste of Osceola County, LLC.

Sincerely,

A handwritten signature in black ink that reads "K.C. Walbridge".

Kevin C. Walbridge
President
Omni Waste of Osceola County, LLC

A handwritten signature in blue ink that reads "Michael Kaiser".

Michael Kaiser
Authorized Agent

Notary:



A handwritten signature in blue ink that reads "Jennifer Marshall".

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: <u>MW-1A</u>	SAMPLE ID: <u>MW-1A</u>	DATE: <u>11-18-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>23</u> feet	STATIC DEPTH TO WATER (feet): <u>16.25</u>	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) = (<u>23</u> feet - <u>16.25</u> feet) X 0.16 gallons/foot = <u>1.2</u> 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): <u>20</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	PURGING INITIATED AT: <u>0920</u>	PURGING ENDED AT: <u>0953</u>	TOTAL VOLUME PURGED (gallons): <u>3</u>							
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)
0944	2.2	2.2	0.09	16.46	4.33	26.79	1775	1.54	3.6	clear	34.4
0948	0.4	2.6	0.09	15.48	4.42	26.82	1910	1.31	4	clear	28.1
0950	0.2	2.8	0.09	15.48	4.43	26.85	1914	1.22	4	clear	27.5
0953	0.3	3	0.09	15.48	4.44	26.87	1916	1.13	3.8	clear	26.3
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 / PWSFL				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>0955</u>		SAMPLING ENDED AT: <u>1015</u> ST 1005 <u>11-18-15</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: <input checked="" type="radio"/> Y N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-1A</u>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	<u>250</u>		
	3	CG	40 ml	None	None		8011	APP	<u>250</u>		
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	<u>350</u>		
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	<u>350</u>		
<u>MW-1A</u>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	<u>350</u>		
REMARKS: Weather: <u>p. cloudy, 79°F</u> Odor: <u>none</u>											
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: MW-1B	DATE: 11-18-15	

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): 15.13	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): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0945	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)
0930	0.9	0.9	0.09	15.10	4.12	26.35	1524	2.12	1.2	Clear	52.2
0935	0.5	1.4	0.09	15.18	4.09	26.35	1497	1.52	1	Clear	46.2
0940	0.5	1.9	0.09	15.18	4.10	26.36	1501	1.46	1	Clear	43.5
0945	0.5	2.4	0.09	15.18	4.09	26.33	1507	1.32	0.9	Clear	42.9
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 / PWSFL <i>Don Thompson / Weibo, LLC</i>		SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>		SAMPLING INITIATED AT: 0945	SAMPLING ENDED AT: 0953				
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ µm						
FIELD DECONTAMINATION: PUMP No	TUBING No (replaced)	DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>							
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1B	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	200
	3	CG	40 ml	None	None		8011	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	350
MW-1B	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	350
REMARKS: Weather: p. cloudy, 79°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)

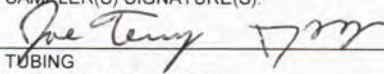
DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773
WELL NO: MW-2A	SAMPLE ID: MW-2A ST
DATE: 11-18-15	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 15.40	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 - 15.4 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): 19	PURGING INITIATED AT: 1027	PURGING ENDED AT: 1110	TOTAL VOLUME PURGED (gallons): 4.3							
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)
1053	2.6	2.6	0.1	15.71	7.03	26.42	1014	2.95	0.6	clear	73.4
1105	1.2	3.8	0.1	15.71	7.20	26.48	1029	1.3	0.8	clear	62.7
1108	0.3	4.1	0.1	15.71	7.18	26.48	1030	1.26	0.7	clear	65.6
1110	0.2	4.3	0.1	15.71	7.18	26.46	1027	1.23	0.7	clear	64.2
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 / PWSFL Don Thompson / Weibo, LLC				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1110		SAMPLING ENDED AT: 1117	
PUMP OR TUBING DEPTH IN WELL (feet): 19				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: ___ µm			
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-2A	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	200		
	3	CG	40 ml	None	None		8011	APP	200		
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	380		
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	380		
MW-2A	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	380		
REMARKS: Weather: Pt. Cloudy, 81°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)

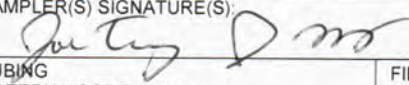
DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773
WELL NO: <i>mw-2B</i>	SAMPLE ID: <i>mw-2B</i>
DATE: <i>11-18-15</i>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <i>38</i> feet to <i>48</i> feet	STATIC DEPTH TO WATER (feet): <i>2.44</i>	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 <i>53</i> feet) + 0.12 gallons = <i>0.2</i> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>43</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>43</i>	PURGING INITIATED AT: <i>1027</i>	PURGING ENDED AT: <i>1048</i>	TOTAL VOLUME PURGED (gallons): <i>1.9</i>							
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)
<i>1037</i>	<i>0.9</i>	<i>0.9</i>	<i>0.09</i>	<i>15.41</i>	<i>4.20</i>	<i>25.75</i>	<i>660</i>	<i>2.44</i>	<i>0.9</i>	<i>clear</i>	<i>83.3</i>
<i>1043</i>	<i>0.5</i>	<i>1.4</i>	<i>0.09</i>	<i>15.41</i>	<i>4.24</i>	<i>25.73</i>	<i>582</i>	<i>1.40</i>	<i>0.6</i>	<i>clear</i>	<i>77</i>
<i>1045</i>	<i>0.2</i>	<i>1.6</i>	<i>0.09</i>	<i>15.41</i>	<i>4.25</i>	<i>25.76</i>	<i>580</i>	<i>1.24</i>	<i>0.6</i>	<i>clear</i>	<i>76.7</i>
<i>1048</i>	<i>0.3</i>	<i>1.9</i>	<i>0.09</i>	<i>15.41</i>	<i>4.25</i>	<i>25.80</i>	<i>574</i>	<i>1.14</i>	<i>0.8</i>	<i>clear</i>	<i>75.4</i>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Joe Terry / PWSFL</i> <i>Don Thompson / Wehr, LLC</i>				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <i>1050</i>		SAMPLING ENDED AT: <i>1057</i>			
PUMP OR TUBING DEPTH IN WELL (feet): <i>43</i>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm					
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
<i>MW-2B</i>	<i>3</i>	<i>CG</i>	<i>40 ml</i>	<i>HCL</i>	<i>Prefilled by lab</i>		<i>8260</i>		<i>APP</i>		<i>200</i>		
	<i>3</i>	<i>CG</i>	<i>40 ml</i>	<i>None</i>	<i>None</i>		<i>8011</i>		<i>APP</i>		<i>200</i>		
	<i>1</i>	<i>PE</i>	<i>500 ml</i>	<i>HNO3</i>	<i>Prefilled by lab</i>		<i>Metals</i>		<i>APP</i>		<i>350</i>		
	<i>1</i>	<i>PE</i>	<i>125 ml</i>	<i>H2SO4</i>	<i>Prefilled by lab</i>		<i>NH3</i>		<i>APP</i>		<i>350</i>		
<i>MW-2B</i>	<i>1</i>	<i>PE</i>	<i>250 ml</i>	<i>None</i>	<i>None</i>		<i>TDS, Cl, NO3</i>		<i>APP</i>		<i>350</i>		
REMARKS: Weather: <i>m. cloudy, 81°F</i> Odor: <i>none</i>													
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; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

- NOTES:** 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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: <u>MW-3A</u>	SAMPLE ID: <u>MW-3A</u>
DATE: <u>11-18-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>12.5</u> feet to <u>22.5</u> feet	STATIC DEPTH TO WATER (feet): <u>14.70</u>	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)				
= (<u>22.8</u> feet - <u>14.7</u> feet) X 0.16 gallons/foot = <u>1.3</u> 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): <u>19</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>19</u>		PURGING INITIATED AT: <u>1138</u>
				PURGING ENDED AT: <u>1220</u>
				TOTAL VOLUME PURGED (gallons): <u>4.2</u>

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)
<u>1210</u>	<u>3.2</u>	<u>3.2</u>	<u>0.1</u>	<u>14.86</u>	<u>5.60</u>	<u>27.81</u>	<u>1201</u>	<u>0.79</u>	<u>2.1</u>	<u>clear</u>	<u>2.7</u>
<u>1215</u>	<u>0.5</u>	<u>3.7</u>	<u>0.1</u>	<u>14.86</u>	<u>5.58</u>	<u>27.82</u>	<u>1117</u>	<u>0.81</u>	<u>2.3</u>	<u>clear</u>	<u>28.6</u>
<u>1217</u>	<u>0.2</u>	<u>3.9</u>	<u>0.1</u>	<u>14.86</u>	<u>5.53</u>	<u>27.85</u>	<u>1112</u>	<u>0.78</u>	<u>2</u>	<u>clear</u>	<u>11.4</u>
<u>1220</u>	<u>0.3</u>	<u>4.2</u>	<u>0.1</u>	<u>14.86</u>	<u>5.60</u>	<u>27.86</u>	<u>1113</u>	<u>0.76</u>	<u>2.2</u>	<u>clear</u>	<u>7.5</u>

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL			SAMPLER(S) SIGNATURE(S): <u>Joe Terry</u>			SAMPLING INITIATED AT: <u>1220</u>		SAMPLING ENDED AT: <u>1230</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>19</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>						

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-3A</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>250</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>250</u>
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>400</u>
<u>MW-3A</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>400</u>

REMARKS: Weather: m. cloudy, 81°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: <u>MW-3B</u>	SAMPLE ID: <u>MW-3B</u> DATE: <u>11-19-15</u>

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): 14.71	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: 1138	PURGING ENDED AT: 1155	TOTAL VOLUME PURGED (gallons): 1.7							
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)
1150	1.2	1.2	0.1	14.76	4.22	27.01	1791	1.38	1.4	clear	56.1
1153	0.3	1.5	0.1	14.76	4.34	27.07	1811	1.11	1.2	clear	46.1
1155	0.2	1.7	0.1	14.76	4.36	27.00	1812	0.99	1.5	clear	43.8
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 / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: 1155		SAMPLING ENDED AT: 1202		
PUMP OR TUBING DEPTH IN WELL (feet): 43				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW-3B	3	CG	40 ml	HCL	Prefilled by lab		8260		APP		200	
	3	CG	40 ml	None	None		8011		APP		200	
	1	PE	500 ml	HNO3	Prefilled by lab		Metals		APP		400	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3		APP		400	
MW-3B	1	PE	250 ml	None	None		TDS, Cl, NO ₃		APP		400	
REMARKS: Weather: <u>Mc Cloudy, B19F</u>												
Odor: <u>none</u>												
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: <u>MW-4A</u>	SAMPLE ID: <u>MW-4A</u>	DATE: <u>11-18-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>23</u> feet	STATIC DEPTH TO WATER (feet): <u>15.39</u>	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) = (<u>23.1</u> feet - <u>15.39</u> feet) X 0.16 gallons/foot = <u>1.2</u> 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): <u>20</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): _____		PURGING INITIATED AT: <u>1305</u>	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)
<u>1320</u>	<u>1.5</u>	<u>1.5</u>	<u>0.1</u>	<u>15.68</u>	<u>5.47</u>	<u>27.46</u>	<u>1259</u>	<u>1.76</u>	<u>20</u>	<u>Clear</u>	<u>-17.7</u>
<u>1322</u>	<u>0.2</u>	<u>1.7</u>	<u>0.1</u>	<u>15.68</u>	<u>5.49</u>	<u>27.39</u>	<u>1205</u>	<u>1.47</u>	<u>20</u>	<u>Clear</u>	<u>-16.0</u>
<u>1325</u>	<u>0.3</u>	<u>2</u>	<u>0.1</u>	<u>15.68</u>	<u>5.49</u>	<u>27.37</u>	<u>1196</u>	<u>1.39</u>	<u>14.7</u>	<u>Clear</u>	<u>-16.6</u>
<u>1330</u>	<u>0.5</u>	<u>2.5</u>	<u>0.1</u>	<u>15.60</u>	<u>5.48</u>	<u>27.38</u>	<u>1192</u>	<u>1.27</u>	<u>12.6</u>	<u>clear</u>	<u>-14.6</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): _____				SAMPLING INITIATED AT: <u>1330</u>		SAMPLING ENDED AT: <u>1338</u>	
PUMP OR TUBING DEPTH IN WELL (feet): _____				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)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>400</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>400</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>400</u>		
REMARKS: Weather: _____ 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: <u>MW-4B</u>	SAMPLE ID: <u>MW-4B</u>
DATE: <u>11-19-15</u>	

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): <u>15.15</u>	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 <u>55</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	PURGING INITIATED AT: <u>1305</u>	PURGING ENDED AT: <u>1348</u>	TOTAL VOLUME PURGED (gallons): <u>4.3</u>							
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)
<u>1342</u>	<u>3.7</u>	<u>3.7</u>	<u>0.1</u>	<u>15.40</u>	<u>4.21</u>	<u>27.35</u>	<u>1888</u>	<u>0.84</u>	<u>1.7</u>	<u>clear</u>	<u>36.3</u>
<u>1345</u>	<u>0.3</u>	<u>4</u>	<u>0.1</u>	<u>15.40</u>	<u>4.19</u>	<u>27.36</u>	<u>1889</u>	<u>0.81</u>	<u>1.6</u>	<u>clear</u>	<u>40.2</u>
<u>1348</u>	<u>0.3</u>	<u>4.3</u>	<u>0.1</u>	<u>15.40</u>	<u>4.19</u>	<u>27.38</u>	<u>1884</u>	<u>0.77</u>	<u>1.4</u>	<u>clear</u>	<u>39.7</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: <u>1350</u>		SAMPLING ENDED AT: <u>1400</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-4B</u>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	
	3	CG	40 ml	None	None		8011	APP	
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	
<u>MW-4B</u>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	
REMARKS: Weather: <u>clear, sunny, 86°F</u> Odor: <u>none</u>									
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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: <i>MW-5A</i>	SAMPLE ID: <i>MW-5A</i>
DATE: <i>11-19-15</i>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <i>12.5</i> feet to <i>22.5</i> feet	STATIC DEPTH TO WATER (feet): <i>16.01</i>	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) = <i>(22.5 feet - 16.01 feet)</i> 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): <i>20</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>20</i>	PURGING INITIATED AT: <i>0905</i>	PURGING ENDED AT: <i>0955</i>	TOTAL VOLUME PURGED (gallons): <i>5</i>							
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)
<i>0845</i>	<i>4</i>	<i>4</i>	<i>0.1</i>	<i>16.54</i>	<i>4.82</i>	<i>26.23</i>	<i>210</i>	<i>0.95</i>	<i>9.9</i>	<i>yellow</i>	<i>61.9</i>
<i>0850</i>	<i>0.5</i>	<i>4.5</i>	<i>0.1</i>	<i>16.54</i>	<i>4.84</i>	<i>26.23</i>	<i>211</i>	<i>0.84</i>	<i>9.2</i>	<i>" "</i>	<i>59.3</i>
<i>0855</i>	<i>0.5</i>	<i>5</i>	<i>0.1</i>	<i>16.54</i>	<i>4.84</i>	<i>26.22</i>	<i>210</i>	<i>0.84</i>	<i>10.4</i>	<i>" "</i>	<i>58.5</i>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: <i>0900</i>		SAMPLING ENDED AT: <i>0910</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>20</i>				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<i>MW-5A</i>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	<i>200</i>	
	3	CG	40 ml	None	None		8011	APP	<i>200</i>	
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	<i>400</i>	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	<i>400</i>	
<i>MW-5A</i>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	<i>400</i>	
REMARKS: Weather: <i>p. cloudy, 73°F</i> Odor: <i>none</i>										
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: <i>MW-5B</i>	SAMPLE ID: <i>MW-5B</i>
DATE: <i>11-19-15</i>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 37 feet to 47 feet	STATIC DEPTH TO WATER (feet): <i>16.04</i>	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)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>42</i>				
FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>42</i>				
PURGING INITIATED AT: <i>0805</i>				
PURGING ENDED AT: <i>0828</i>				
TOTAL VOLUME PURGED (gallons): <i>2.3</i>				

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)
<i>0815</i>	<i>1</i>	<i>1</i>	<i>0.1</i>	<i>16.17</i>	<i>3.88</i>	<i>25.45</i>	<i>1038</i>	<i>1.58</i>	<i>1.3</i>	<i>clear</i>	<i>159.8</i>
<i>0820</i>	<i>0.5</i>	<i>1.5</i>	<i>0.1</i>	<i>16.17</i>	<i>4.02</i>	<i>25.48</i>	<i>1770</i>	<i>0.96</i>	<i>0.7</i>	<i>clear</i>	<i>159.3</i>
<i>0825</i>	<i>0.5</i>	<i>2</i>	<i>0.1</i>	<i>16.17</i>	<i>4.00</i>	<i>25.42</i>	<i>1772</i>	<i>0.95</i>	<i>0.7</i>	<i>clear</i>	<i>155.9</i>
<i>0828</i>	<i>0.3</i>	<i>2.3</i>	<i>0.1</i>	<i>16.17</i>	<i>4.00</i>	<i>25.42</i>	<i>1773</i>	<i>0.92</i>	<i>0.7</i>	<i>clear</i>	<i>154.1</i>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL			SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>			SAMPLING INITIATED AT: <i>0830</i>		SAMPLING ENDED AT: <i>0840</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>42</i>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No			TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<i>MW-5B</i>	<i>3</i>	<i>CG</i>	<i>40 ml</i>	<i>HCL</i>	<i>Prefilled by lab</i>		<i>8260</i>	<i>APP</i>	<i>200</i>
	<i>3</i>	<i>CG</i>	<i>40 ml</i>	<i>None</i>	<i>None</i>		<i>8011</i>	<i>APP</i>	<i>200</i>
	<i>1</i>	<i>PE</i>	<i>500 ml</i>	<i>HNO3</i>	<i>Prefilled by lab</i>		<i>Metals</i>	<i>APP</i>	<i>400</i>
	<i>1</i>	<i>PE</i>	<i>125 ml</i>	<i>H2SO4</i>	<i>Prefilled by lab</i>		<i>NH3</i>	<i>APP</i>	<i>400</i>
<i>MW-5B</i>	<i>1</i>	<i>PE</i>	<i>250 ml</i>	<i>None</i>	<i>None</i>		<i>TDS, Cl, NO3</i>	<i>APP</i>	<i>400</i>

REMARKS: Weather: *p. cloudy, 73°/c*
 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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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: <u>MW-6A</u>	SAMPLE ID: <u>MW-6A</u>
DATE: <u>11-19-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>22.6</u> feet to <u>22.6</u> feet	STATIC DEPTH TO WATER (feet): <u>16.52</u>	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) $= (22.6 \text{ feet} - 16.52 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= 0 \text{ gallons} + (0.0014 \text{ gallons/foot} \times \text{feet}) + 0.12 \text{ gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	PURGING INITIATED AT: <u>0650</u>	PURGING ENDED AT: <u>0737</u>	TOTAL VOLUME PURGED (gallons): <u>3.9</u>							
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)
0730	3.2	3.2	0.08	16.68	4.38	26.50	424	0.96	1.6	clear	60.7
0732	0.2	3.4	0.08	16.69	4.40	26.50	422	0.92	1.9	clear	60.0
0737	0.4	3.8	0.08	16.60	4.38	26.57	421	0.9	1.7	clear	65.6
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 / PWSFL			SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>			SAMPLING INITIATED AT: <u>0740</u>		SAMPLING ENDED AT: <u>0750</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW6A</u>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	<u>200</u>
	3	CG	40 ml	None	None		8011	APP	<u>200</u>
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	<u>325</u>
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	<u>325</u>
<u>MW6A</u>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	<u>325</u>
REMARKS: Weather: <u>cloudy, 73°F</u> Odor: <u>none</u>									
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: <u>MW-6B</u>	SAMPLE ID: <u>MW-6B</u>
DATE: <u>11-19-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>37</u> feet to <u>47</u> feet	STATIC DEPTH TO WATER (feet): <u>16.37</u>	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 <u>55</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>	PURGING INITIATED AT: <u>0650</u>	PURGING ENDED AT: <u>0710</u>	TOTAL VOLUME PURGED (gallons): <u>1.9</u>							
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)
<u>0705</u>	<u>1.4</u>	<u>1.4</u>	<u>0.09</u>	<u>16.61</u>	<u>4.55</u>	<u>25.98</u>	<u>74</u>	<u>1.24</u>	<u>0.2</u>	<u>clear</u>	<u>57.5</u>
<u>0708</u>	<u>0.3</u>	<u>1.7</u>	<u>0.09</u>	<u>16.61</u>	<u>4.55</u>	<u>25.98</u>	<u>75</u>	<u>1.12</u>	<u>0.4</u>	<u>clear</u>	<u>57.7</u>
<u>0710</u>	<u>0.2</u>	<u>1.9</u>	<u>0.09</u>	<u>16.61</u>	<u>4.54</u>	<u>25.99</u>	<u>75</u>	<u>1.02</u>	<u>0.4</u>	<u>clear</u>	<u>57.8</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>0715</u>		SAMPLING ENDED AT: <u>0725</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-6B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>350</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>350</u>		
<u>MW-6B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>350</u>		
REMARKS: Weather: <u>Cloudy, 73%</u> Odor: <u>none</u>											
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: <u>MW-7A</u>	SAMPLE ID: <u>MW-7A</u>
DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>23</u> feet	STATIC DEPTH TO WATER (feet): <u>17.44</u>	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) = (<u>23.3</u> feet - <u>17.44</u> feet) X 0.16 gallons/foot = <u>1</u> 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): <u>20</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>		PURGING INITIATED AT: <u>1315</u>
				PURGING ENDED AT: <u>1400</u>
				TOTAL VOLUME PURGED (gallons): <u>4.1</u>

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)
<u>1353</u>	<u>3.4</u>	<u>3.4</u>	<u>0.09</u>	<u>17.52</u>	<u>4.97</u>	<u>25.62</u>	<u>385</u>	<u>1.46</u>	<u>0.6</u>	<u>clear</u>	<u>-4</u>
<u>1355</u>	<u>0.2</u>	<u>3.6</u>	<u>0.09</u>	<u>17.52</u>	<u>5.05</u>	<u>25.65</u>	<u>368</u>	<u>1.44</u>	<u>0.6</u>	<u>clear</u>	<u>-13.8</u>
<u>1357</u>	<u>0.2</u>	<u>3.8</u>	<u>0.09</u>	<u>17.52</u>	<u>5.05</u>	<u>25.65</u>	<u>363</u>	<u>1.47</u>	<u>0.6</u>	<u>clear</u>	<u>-17.3</u>
<u>1400</u>	<u>0.3</u>	<u>4.1</u>	<u>0.09</u>	<u>17.52</u>	<u>5.05</u>	<u>25.62</u>	<u>361</u>	<u>1.44</u>	<u>0.6</u>	<u>clear</u>	<u>-17.8</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL			SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT: <u>1400</u>		SAMPLING ENDED AT: <u>1410</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N						

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-7A</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>125</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>125</u>
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>350</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>350</u>
<u>MW-7A</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>350</u>

REMARKS: Weather: m. cloudy, 82°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: <u>MW-7B</u>	SAMPLE ID: <u>MW-7B</u>
DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>37.5</u> feet to <u>47.5</u> feet	STATIC DEPTH TO WATER (feet): <u>17.21</u>	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 <u>55</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	PURGING INITIATED AT: <u>1315</u>	PURGING ENDED AT: <u>1343</u>	TOTAL VOLUME PURGED (gallons): <u>2.2</u>							
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)
<u>1335</u>	<u>1.6</u>	<u>1.6</u>	<u>0.08</u>	<u>17.50</u>	<u>4.12</u>	<u>25.52</u>	<u>1149</u>	<u>1.51</u>	<u>6.3</u>	<u>clear</u>	<u>52.5</u>
<u>1338</u>	<u>0.2</u>	<u>1.8</u>	<u>0.08</u>	<u>17.50</u>	<u>4.11</u>	<u>25.46</u>	<u>1150</u>	<u>1.47</u>	<u>7.8</u>	<u>clear</u>	<u>50.4</u>
<u>1343</u>	<u>0.2</u>	<u>2.2</u>	<u>0.08</u>	<u>17.50</u>	<u>4.13</u>	<u>25.45</u>	<u>1150</u>	<u>1.43</u>	<u>9.7</u>	<u>clear</u>	<u>50.2</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>1345</u>		SAMPLING ENDED AT: <u>1355</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-7B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>APP</u>	<u>125</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>APP</u>	<u>125</u>	
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>APP</u>	<u>300</u>	
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>APP</u>	<u>300</u>	
<u>MW-7B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>		<u>APP</u>	<u>300</u>	
REMARKS: Weather: <u>m. cloudy, 82°F</u> Odor: <u>none</u>											
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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-84	SAMPLE ID: MW-84
DATE: 11-17-15	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 22.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 16.79	PURGE PUMP TYPE OR BAILER: PP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable)
 = (22.5 feet - 16.79 feet) X 0.16 gallons/foot = 0.9 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: 1200	PURGING ENDED AT: 1250	TOTAL VOLUME PURGED (gallons): 5
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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)
1244	4.4	4.4	0.1	17.04	4.20	26.06	1714	1.39	4.25	clear	10.3
1248	0.4	4.8	0.1	17.04	4.20	26.07	1714	1.43	3.4	clear	9.9
1250	0.2	5	0.1	17.04	4.20	26.07	1718	1.40	3.2	clear	9.9

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 / PWSFL Don Thompson/WCBW, LLC	SAMPLER(S) SIGNATURE(S): Joe Terry	SAMPLING INITIATED AT: 1250	SAMPLING ENDED AT: 1258
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PUMP OR TUBING DEPTH IN WELL (feet): 20	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTRATION EQUIPMENT TYPE: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	FILTER SIZE: _____ µm
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FIELD DECONTAMINATION: PUMP No	TUBING No (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
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SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-84	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	200
	3	CG	40 ml	None	None		8011	APP	200
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	400
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	400
MW-84	1	PE	250 ml	None	None		TDS, Cl, NO3	APP	400

REMARKS: Weather: m. cloudy, B20%
 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: <u>MW-8B</u>	SAMPLE ID: <u>MW-8B</u>
DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>39.6</u> feet to <u>49.6</u> feet	STATIC DEPTH TO WATER (feet): <u>12.0</u>	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)											
= (<u>4</u> feet - <u>12.0</u> feet) X 0.16 gallons/foot = <u> </u> 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 <u>60</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>	PURGING INITIATED AT: <u>1200</u>	PURGING ENDED AT: <u>1230</u>	TOTAL VOLUME PURGED (gallons): <u>3</u>							
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)
<u>1224</u>	<u>2.4</u>	<u>2.4</u>	<u>0.1</u>	<u>17.25</u>	<u>4.19</u>	<u>25.32</u>	<u>1149</u>	<u>1.41</u>	<u>1</u>	<u>clear</u>	<u>52.5</u>
<u>1227</u>	<u>0.3</u>	<u>2.7</u>	<u>0.1</u>	<u>17.25</u>	<u>4.21</u>	<u>25.30</u>	<u>1151</u>	<u>1.30</u>	<u>0.7</u>	<u>clear</u>	<u>50.6</u>
<u>1230</u>	<u>0.3</u>	<u>3</u>	<u>0.1</u>	<u>17.25</u>	<u>4.21</u>	<u>25.31</u>	<u>1149</u>	<u>1.26</u>	<u>0.9</u>	<u>clear</u>	<u>51.3</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL <u>Don Chapman/Weibo, LLC</u>			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: <u>1230</u>		SAMPLING ENDED AT: <u>1238</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>			TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP No			TUBING No (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-8B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>400</u>
<u>MW-8B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>400</u>
REMARKS: Weather: <u>m. cloudy, 82°F</u> Odor: <u>None</u>									
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: <u>MW-9A</u>	SAMPLE ID: <u>MW-9A</u>
DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): <u>17.06</u>	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)											
= (<u>22.4</u> feet - <u>17.06</u> feet) X 0.16 gallons/foot = <u>0.9</u> 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): <u>20</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	PURGING INITIATED AT: <u>1133</u>	PURGING ENDED AT: <u>1133</u>	TOTAL VOLUME PURGED (gallons): <u>5.9</u>							
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	5.3	5.3	0.08	17.30	5.32	28.49	342	1.72	9.29	yellowish	-19.2
1128	0.2	5.5	0.08	17.30	5.32	28.45	337	1.49	8.1	" "	-23.3
1130	0.2	5.7	0.08	17.30	5.32	28.45	336	1.3	8.3	" "	-23.3
1133	0.2	5.9	0.08	17.30	5.32	28.50	336	1.21	8.5	" "	-23.3
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 / PWSFL <u>Santhoshan/Water, LLC</u>			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: <u>1135</u>		SAMPLING ENDED AT: <u>1145</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No			TUBING No (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-9A</u>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	<u>150</u>
	3	CG	40 ml	None	None		8011	APP	<u>150</u>
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	<u>300</u>
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	<u>300</u>
<u>MW-9A</u>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	<u>300</u>
REMARKS: Weather: <u>m. cloudy, 82°F</u> Odor: <u>none</u>									
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; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

- NOTES:** 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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: <u>MW-9B</u>	SAMPLE ID: <u>MW-9B</u>
DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>39</u> feet to <u>49</u> feet	STATIC DEPTH TO WATER (feet): <u>17.03</u>	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 <u>60</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>	PURGING INITIATED AT: <u>10:19</u>	PURGING ENDED AT: <u>11:13</u>	TOTAL VOLUME PURGED (gallons): <u>5.3</u>							
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)
<u>11:00</u>	<u>4</u>	<u>4</u>	<u>0.10</u>	<u>12.00</u>	<u>41.18</u>	<u>27.13</u>	<u>894</u>	<u>1.62</u>	<u>1.85</u>	<u>clear</u>	<u>73.5</u>
<u>11:05</u>	<u>0.5</u>	<u>4.5</u>	<u>0.1</u>	<u>17.60</u>	<u>41.25</u>	<u>26.83</u>	<u>894</u>	<u>1.37</u>	<u>0.9</u>	<u>clear</u>	<u>67.8</u>
<u>11:10</u>	<u>0.5</u>	<u>5</u>	<u>0.1</u>	<u>17.60</u>	<u>41.24</u>	<u>26.81</u>	<u>895</u>	<u>1.22</u>	<u>3.8</u>	<u>clear</u>	<u>65.8</u>
<u>11:13</u>	<u>0.3</u>	<u>5.3</u>	<u>0.1</u>	<u>17.60</u>	<u>41.23</u>	<u>26.81</u>	<u>895</u>	<u>1.18</u>	<u>0.7</u>	<u>clear</u>	<u>65.6</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL <u>Don Thompson / Weibu, LLC</u>				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>11:15</u>		SAMPLING ENDED AT: <u>11:22</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-9B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>400</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>400</u>		
<u>MW-9B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>400</u>		
REMARKS: Weather: <u>m. cloudy, 82°F</u> Odor: <u>none</u>											
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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-104	SAMPLE ID: MW-104
DATE: 11-17-15	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12 feet to 22 feet	STATIC DEPTH TO WATER (feet): 18.41	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (22 feet - 18.41 feet) X 0.16 gallons/foot = 0.6 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): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 0955	PURGING ENDED AT: 0955	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)
0940	2.2	2.2	0.06	18.51	4.69	26.23	522	2.33	2.7	clear	20.0
0950	0.6	3.3	0.06	18.51	5.15	26.65	389	1.31	4.7	clear	4.5
0952	0.1	3.4	0.06	18.51	5.13	26.62	379	1.14	2.9	clear	5.5
0955	0.2	3.6	0.06	18.51	5.16	26.64	381	1.09	2.3	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 / PWSFL San Thompson / Weibo, LLC				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: 0955		SAMPLING ENDED AT: 1007	
PUMP OR TUBING DEPTH IN WELL (feet): 20				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y (N)		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y (N)							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-104	3	CG	40 ml	HCL	Prefilled by lab		8260		APP	125	
	3	CG	40 ml	None	None		8011		APP	125	
	1	PE	500 ml	HNO3	Prefilled by lab		Metals		APP	250	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3		APP	250	
MW-104	1	PE	250 ml	None	None		TDS, Cl, NO3		APP	250	
REMARKS: Weather: cloudy, 72°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: <u>MW-10B</u>	SAMPLE ID: <u>MW-10B</u>	DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>38</u> feet to <u>48</u> feet	STATIC DEPTH TO WATER (feet): <u>18.41</u>	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 <u>55</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	PURGING INITIATED AT: <u>0900</u>	PURGING ENDED AT: <u>0937</u>	TOTAL VOLUME PURGED (gallons): <u>3</u>							
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)
<u>0920</u>	<u>1.6</u>	<u>1.6</u>	<u>0.08</u>	<u>18.51</u>	<u>3.95</u>	<u>25.59</u>	<u>1075</u>	<u>3.04</u>	<u>1.6</u>	<u>clear</u>	<u>48.1</u>
<u>0930</u>	<u>0.8</u>	<u>2.4</u>	<u>0.08</u>	<u>18.51</u>	<u>3.94</u>	<u>25.56</u>	<u>1077</u>	<u>1.21</u>	<u>1.1</u>	<u>clear</u>	<u>48.9</u>
<u>0935</u>	<u>0.4</u>	<u>2.8</u>	<u>0.08</u>	<u>18.51</u>	<u>3.96</u>	<u>25.55</u>	<u>1079</u>	<u>1.04</u>	<u>1.1</u>	<u>clear</u>	<u>48.9</u>
<u>0937</u>	<u>0.2</u>	<u>3</u>	<u>0.08</u>	<u>18.51</u>	<u>3.96</u>	<u>25.54</u>	<u>1080</u>	<u>1.01</u>	<u>0.8</u>	<u>clear</u>	<u>49.0</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>0940</u>		SAMPLING ENDED AT: <u>0948</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <u>N</u>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <u>N</u>							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-10B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>APP</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>APP</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>APP</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>APP</u>		
<u>MW-10B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>		<u>APP</u>		
REMARKS: Weather: <u>Cloudy, 72°P</u> Odor: <u>none</u>											
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

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

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

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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: <u>MW-11A</u>	SAMPLE ID: <u>MW-11A</u>	DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>12.8</u> feet to <u>22.8</u> feet	STATIC DEPTH TO WATER (feet): <u>15.58</u>	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) = (<u>22.8</u> feet - <u>15.58</u> feet) X 0.16 gallons/foot = <u>1.2</u> 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): <u>20</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	PURGING INITIATED AT: <u>0740</u>	PURGING ENDED AT: <u>0820</u>	TOTAL VOLUME PURGED (gallons): <u>3.2</u>							
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)
<u>0815</u>	<u>2.8</u>	<u>2.8</u>	<u>0.08</u>	<u>16.87</u>	<u>4.70</u>	<u>27.28</u>	<u>448</u>	<u>1.02</u>	<u>2.2</u>	<u>clear</u>	<u>15.7</u>
<u>0817</u>	<u>0.2</u>	<u>3</u>	<u>0.08</u>	<u>16.87</u>	<u>4.73</u>	<u>27.27</u>	<u>453</u>	<u>1.03</u>	<u>2.5</u>	<u>clear</u>	<u>14.5</u>
<u>0820</u>	<u>0.2</u>	<u>3.2</u>	<u>0.08</u>	<u>16.87</u>	<u>4.73</u>	<u>27.28</u>	<u>452</u>	<u>1.01</u>	<u>2.2</u>	<u>clear</u>	<u>14.0</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>0825</u>		SAMPLING ENDED AT: <u>0835</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
<u>MW-11A</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>APP</u>		<u>200</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>APP</u>		<u>200</u>	
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>APP</u>		<u>300</u>	
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>APP</u>		<u>300</u>	
<u>MW-11A</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>		<u>APP</u>		<u>300</u>	
REMARKS: Weather: <u>cloudy, 72°F</u>												
Odor: <u>none</u>												
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: <u>MW-11B</u>	SAMPLE ID: <u>MW-11B</u>
DATE: <u>11-17-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>38</u> feet to <u>48</u> feet	STATIC DEPTH TO WATER (feet): <u>15.85</u>	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)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>				
FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>				
PURGING INITIATED AT: <u>0740</u>				
PURGING ENDED AT: <u>0805</u>				
TOTAL VOLUME PURGED (gallons): <u>2</u>				

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)
0755	1.2	1.2	0.08	15.99	4.86	26.37	86	1.32	6.3	clear	34.4
0800	0.4	1.6	0.08	15.99	4.87	26.34	91	1.27	5.4	clear	33.3
0802	0.2	1.8	0.08	15.99	4.87	26.38	91	1.21	4.8	clear	35.0
0805	0.2	2	0.08	15.99	4.87	26.36	91	1.17	4.4	clear	35.1

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 / PWSFL			SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>			SAMPLING INITIATED AT: <u>0805</u>		SAMPLING ENDED AT: <u>0812</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No			TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-11B	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	175
	3	CG	40 ml	None	None		8011	APP	175
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	300
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	300
MW-11B	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	300

REMARKS: Weather: cloudy, 72°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: <u>MW-12A</u>	SAMPLE ID: <u>MW-12A</u> DATE: <u>11/16/15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>17.07</u>	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) = (<u>23</u> feet - <u>17.07</u> feet) X 0.16 gallons/foot = <u>.95</u> 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): <u>20</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	PURGING INITIATED AT: <u>1410</u>	PURGING ENDED AT: <u>1500</u>	TOTAL VOLUME PURGED (gallons): <u>5</u>							
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)
<u>1435</u>	<u>2.5</u>	<u>2.5</u>	<u>0.1</u>	<u>17.38</u>	<u>4.38</u>	<u>27.70</u>	<u>219</u>	<u>4.44</u>	<u>0.7</u>	<u>clear</u>	<u>66.8</u>
<u>1450</u>	<u>1.5</u>	<u>4</u>	<u>0.1</u>	<u>17.38</u>	<u>4.38</u>	<u>27.86</u>	<u>219</u>	<u>3.85</u>	<u>2.7</u>	<u>clear</u>	<u>56.2</u>
<u>1455</u>	<u>0.5</u>	<u>4.5</u>	<u>0.1</u>	<u>17.38</u>	<u>4.38</u>	<u>27.84</u>	<u>219</u>	<u>3.82</u>	<u>2.9</u>	<u>clear</u>	<u>57.2</u>
<u>1500</u>	<u>0.5</u>	<u>5</u>	<u>0.1</u>	<u>17.38</u>	<u>4.38</u>	<u>27.86</u>	<u>219</u>	<u>3.82</u>	<u>2.8</u>	<u>clear</u>	<u>57.9</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Joe Terry / PWSFL</u> <u>Don Thompson / Weibo, LLC</u>				SAMPLER(S) SIGNATURE(S): <u>Joe Terry</u> <u>Don Thompson</u>				SAMPLING INITIATED AT: <u>1500</u>		SAMPLING ENDED AT: <u>1507</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm					
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: <input checked="" type="checkbox"/> Y N									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
<u>MW-12A</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>APP</u>		<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>APP</u>		<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>APP</u>		<u>400</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>APP</u>		<u>400</u>		
<u>MW-12A</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>		<u>APP</u>		<u>400</u>		
REMARKS: Weather: <u>p. cloudy, 82°F</u> Odor: <u>none</u>													
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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: <u>MW-12B</u>	SAMPLE ID: <u>MW-12B</u>
DATE: <u>11/16/15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>39</u> feet to <u>49</u> feet	STATIC DEPTH TO WATER (feet): <u>17.11</u>	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) = (<u>49</u> feet - <u>17.11</u> 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 <u>60</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>44</u>	PURGING INITIATED AT: <u>1410</u>	PURGING ENDED AT: <u>1505</u>	TOTAL VOLUME PURGED (gallons): <u>4.4</u>							
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)
<u>1500</u>	<u>4</u>	<u>4</u>	<u>0.08</u>	<u>17.27</u>	<u>4.82</u>	<u>26.66</u>	<u>94</u>	<u>3.22</u>	<u>1.1</u>	<u>clear</u>	<u>49.4</u>
<u>1503</u>	<u>0.2</u>	<u>4.2</u>	<u>0.08</u>	<u>17.27</u>	<u>4.81</u>	<u>26.61</u>	<u>94</u>	<u>3.23</u>	<u>0.4</u>	<u>clear</u>	<u>45.8</u>
<u>1505</u>	<u>0.2</u>	<u>4.4</u>	<u>0.08</u>	<u>17.27</u>	<u>4.81</u>	<u>26.63</u>	<u>94</u>	<u>3.20</u>	<u>0.3</u>	<u>clear</u>	<u>46.4</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL <u>Don Thompson / Weibu, LLC</u>			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: <u>1510</u>		SAMPLING ENDED AT: <u>1520</u>	
PUMP OR TUBING DEPTH IN WELL (feet):			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)			DUPLICATE: Y <input checked="" type="radio"/> N			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-12B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>150</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>150</u>
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>300</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>300</u>
<u>MW-12B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>300</u>
REMARKS: Weather: <u>p. cloudy, 82°F</u> Odor: <u>none</u>									
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: MW-13A	DATE: 11-16-15

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 12.5 feet to 22.5 feet	STATIC DEPTH TO WATER (feet): 17.01	PURGE PUMP TYPE OR BAILER: PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (22.5 feet - 17.01 feet) X 0.16 gallons/foot = 0.9 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: 1235		PURGING ENDED AT: 1320		TOTAL VOLUME PURGED (gallons): 4.5			
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)
1315	4	4	0.1	17.21	5.21	27.72	627	0.96	1.2	clear	29
1317	0.2	4.2	0.1	17.21	5.21	27.75	627	0.95	1.3	clear	28.9
1320	0.3	4.5	0.1	17.21	5.21	27.77	627	0.93	1.4	clear	28.7
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 / PWSFL			SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>			SAMPLING INITIATED AT: 1325		SAMPLING ENDED AT: 1333	
PUMP OR TUBING DEPTH IN WELL (feet): 20			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP No			TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-13A	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	150
	3	CG	40 ml	None	None		8011	APP	150
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	380
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	380
MW-13A	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	380
REMARKS: Weather: p. Cloudy, 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: <u>MW-13B</u>	SAMPLE ID: <u>MW-13B</u> DATE: <u>11-16-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>37.2</u> feet to <u>47.2</u> feet	STATIC DEPTH TO WATER (feet): <u>16.94</u>	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 <u>60</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	PURGING INITIATED AT: <u>1230</u>	PURGING ENDED AT: <u>1303</u>	TOTAL VOLUME PURGED (gallons): <u>3.3</u>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
<u>1250</u>	<u>2</u>	<u>2</u>	<u>0.1</u>	<u>17.00</u>	<u>4.71</u>	<u>26.93</u>	<u>122</u>	<u>2.74</u>	<u>1.2</u>	<u>clear</u>	<u>81.5</u>
<u>1257</u>	<u>0.7</u>	<u>2.7</u>	<u>0.1</u>	<u>17.00</u>	<u>4.75</u>	<u>26.98</u>	<u>123</u>	<u>1.5</u>	<u>1.2</u>	<u>clear</u>	<u>70.8</u>
<u>1300</u>	<u>0.3</u>	<u>3</u>	<u>0.1</u>	<u>17.00</u>	<u>4.76</u>	<u>26.92</u>	<u>124</u>	<u>1.46</u>	<u>0.9</u>	<u>clear</u>	<u>69.9</u>
<u>1303</u>	<u>0.3</u>	<u>3.3</u>	<u>0.1</u>	<u>17.00</u>	<u>4.76</u>	<u>26.89</u>	<u>124</u>	<u>1.44</u>	<u>0.9</u>	<u>clear</u>	<u>69.5</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>1305</u>		SAMPLING ENDED AT: <u>1313</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
<u>MW-13B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>APP</u>		<u>200</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>APP</u>		<u>200</u>	
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>APP</u>		<u>400</u>	
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>APP</u>		<u>400</u>	
<u>MW-13B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO₃</u>		<u>APP</u>		<u>400</u>	
REMARKS: Weather: <u>p. cloudy, 82°F</u>												
Odor: <u>none</u>												
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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: <u>MW-16AR</u>	SAMPLE ID: <u>MW-16AR</u>
DATE: <u>11-16-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>135</u> feet to <u>23.5</u> feet	STATIC DEPTH TO WATER (feet): <u>16.30</u>	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)				
= (<u>23.5</u> feet - <u>16.30</u> feet) X 0.16 gallons/foot = <u>1.2</u> 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): <u>20</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>	PURGING INITIATED AT: <u>1105</u>	PURGING ENDED AT: <u>1150</u>	TOTAL VOLUME PURGED (gallons): <u>2.7</u>

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)
<u>1145</u>	<u>2.4</u>	<u>2.4</u>	<u>0.06</u>	<u>17.13</u>	<u>5.05</u>	<u>27.45</u>	<u>515</u>	<u>0.93</u>	<u>1.3</u>	<u>clear</u>	<u>-20.4</u>
<u>1147</u>	<u>0.1</u>	<u>2.5</u>	<u>0.06</u>	<u>17.13</u>	<u>5.06</u>	<u>27.50</u>	<u>520</u>	<u>0.91</u>	<u>1.4</u>	<u>clear</u>	<u>-21.9</u>
<u>1150</u>	<u>0.2</u>	<u>2.7</u>	<u>0.06</u>	<u>17.10</u>	<u>5.06</u>	<u>27.51</u>	<u>521</u>	<u>0.91</u>	<u>1.2</u>	<u>clear</u>	<u>-21.9</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL			SAMPLER(S) SIGNATURE(S): <u>Joe Terry</u>			SAMPLING INITIATED AT: <u>1150</u>		SAMPLING ENDED AT: <u>1200</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>20</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No			TUBING No (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-16AR</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>225</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>225</u>
<u>MW-16AR</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>225</u>

REMARKS: Weather: p. Cloudy, B10F
 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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 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: <u>MW-16BR</u>	SAMPLE ID: <u>MW-16BR</u>
DATE: <u>11-14-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>36.5</u> feet to <u>46.5</u> feet	STATIC DEPTH TO WATER (feet): <u>16.78</u>	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)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>				
FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>				
PURGING INITIATED AT: <u>1100</u>				
PURGING ENDED AT: <u>1130</u>				
TOTAL VOLUME PURGED (gallons): <u>3</u>				

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)
<u>1125</u>	<u>2.5</u>	<u>2.5</u>	<u>0.1</u>	<u>16.86</u>	<u>4.83</u>	<u>26.03</u>	<u>67</u>	<u>1.29</u>	<u>3.5</u>	<u>clear</u>	<u>27.6</u>
<u>1128</u>	<u>0.3</u>	<u>2.8</u>	<u>0.1</u>	<u>16.86</u>	<u>4.84</u>	<u>26.07</u>	<u>67</u>	<u>1.23</u>	<u>3.2</u>	<u>clear</u>	<u>17.0</u>
<u>1130</u>	<u>0.2</u>	<u>3</u>	<u>0.1</u>	<u>16.86</u>	<u>4.86</u>	<u>26.05</u>	<u>67</u>	<u>1.22</u>	<u>3.3</u>	<u>clear</u>	<u>15.6</u>

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>1130</u>		SAMPLING ENDED AT: <u>1140</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>42</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-16BR</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>400</u>
<u>MW-16BR</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>400</u>

REMARKS: Weather: p. cloudy, 81°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: MW-17AR
DATE: 11-16-15	

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): 17.16	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 - 17.16 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):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT: 0930		PURGING ENDED AT: 1028		TOTAL VOLUME PURGED (gallons): 5.3			
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)
1020	4.5	4.5	0.09	17.55	4.54	26.00	261	0.77	0.6	clear	32.4
1025	0.5	5	0.09	17.55	4.53	25.97	259	0.74	0.6	clear	30.2
1028	0.3	5.3	0.09	17.55	4.57	25.98	259	0.73	0.4	clear	28.8

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 / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: 1030		SAMPLING ENDED AT: 1040	
PUMP OR TUBING DEPTH IN WELL (feet): 21				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y (N)		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)		
MW-17AR	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	120		
	3	CG	40 ml	None	None		8011	APP	120		
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	350		
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	350		
MW-17AR	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	350		

REMARKS: Weather: Clear, 77°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: <u>MW-17BR</u>	SAMPLE ID: <u>MW-17BR</u> DATE: <u>11-16-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>38</u> feet to <u>48</u> feet	STATIC DEPTH TO WATER (feet): <u>17.03</u>	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)				
= (<u> </u> feet - <u> </u> feet) X 0.16 gallons/foot = <u> </u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= <u>0</u> gallons + (<u>0.0014</u> gallons/foot X <u>55</u> feet) + 0.12 gallons = <u>0.2</u> gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	PURGING INITIATED AT: <u>0925</u>	PURGING ENDED AT: <u>1005</u>	TOTAL VOLUME PURGED (gallons): <u>3.7</u>
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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	2.7	2.7	0.09	18.18	4.87	25.01	192	2.54	3.9	Clear	6
1000	0.5	3.2	0.09	18.18	4.99	24.94	190	1.11	3.6	Clear	-5.2
1002	0.2	3.4	0.09	18.18	5.00	24.43	189	1.03	3.6	Clear	-4.2
1005	0.3	3.7	0.09	18.18	4.97	24.97	189	0.95	3.7	Clear	11.5

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 / PWSFL	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: <u>1005</u>	SAMPLING ENDED AT: <u>1015</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Filtration Equipment Type: <u> </u>
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-17BR</u>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	<u>125</u>
	3	CG	40 ml	None	None		8011	APP	<u>125</u>
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	<u>350</u>
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	<u>350</u>
<u>MW-17BR</u>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	<u>350</u>

REMARKS: Weather: Clear, 77°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: <i>MW-22AR</i>	SAMPLE ID: <i>MW-22AR</i>
DATE: <i>11-18-15</i>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <i>13</i> feet to <i>23</i> feet	STATIC DEPTH TO WATER (feet): <i>15.17</i>	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)											
$= (23 \text{ feet} - 15.17 \text{ feet}) \times 0.16 \text{ gallons/foot} = 1.3 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$= 0 \text{ gallons} + (0.0014 \text{ gallons/foot} \times \text{feet}) + 0.12 \text{ gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <i>19</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>19</i>	PURGING INITIATED AT: <i>0650</i>	PURGING ENDED AT: <i>0747</i>	TOTAL VOLUME PURGED (gallons): <i>4.6</i>							
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)
<i>0740</i>	<i>2.1</i>	<i>4.1</i>	<i>0.08</i>	<i>15.40</i>	<i>5.63</i>	<i>25.86</i>	<i>913</i>	<i>1.19</i>	<i>0.7</i>	<i>clear</i>	<i>-68.7</i>
<i>0745</i>	<i>0.4</i>	<i>4.4</i>	<i>0.08</i>	<i>15.40</i>	<i>5.66</i>	<i>25.87</i>	<i>917</i>	<i>1.17</i>	<i>0.8</i>	<i>clear</i>	<i>-73.8</i>
<i>0747</i>	<i>0.2</i>	<i>4.6</i>	<i>0.08</i>	<i>15.40</i>	<i>5.67</i>	<i>25.88</i>	<i>916</i>	<i>1.17</i>	<i>0.7</i>	<i>clear</i>	<i>-75.2</i>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>			SAMPLING INITIATED AT: <i>0750</i>		SAMPLING ENDED AT: <i>0800</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>19</i>				TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N						
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<i>MW-22AR</i>	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	<i>150</i>	
	3	CG	40 ml	None	None		8011	APP	<i>150</i>	
	1	PE	500 ml	HNO3	Prefilled by lab		Metals	APP	<i>300</i>	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	<i>300</i>	
<i>MW-22AR</i>	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	<i>300</i>	
REMARKS: Weather: <i>Clear, 73°F</i> Odor: <i>None</i>										
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: <u>MW-22BR</u>	SAMPLE ID: <u>MW-22BR</u>
DATE: <u>11-18-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>35.5</u> feet to <u>45.5</u> feet	STATIC DEPTH TO WATER (feet): <u>15.05</u>	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 <u>50</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>40</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>40</u>	PURGING INITIATED AT: <u>0650</u>	PURGING ENDED AT: <u>0725</u>	TOTAL VOLUME PURGED (gallons): <u>2.8</u>							
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)
<u>0715</u>	<u>2</u>	<u>2</u>	<u>0.08</u>	<u>15.11</u>	<u>4.44</u>	<u>24.97</u>	<u>215</u>	<u>0.88</u>	<u>1.3</u>	<u>clear</u>	<u>73.1</u>
<u>0720</u>	<u>0.4</u>	<u>2.4</u>	<u>0.08</u>	<u>15.11</u>	<u>4.45</u>	<u>24.98</u>	<u>213</u>	<u>0.83</u>	<u>1.2</u>	<u>clear</u>	<u>70.9</u>
<u>0725</u>	<u>0.4</u>	<u>2.8</u>	<u>0.08</u>	<u>15.11</u>	<u>4.45</u>	<u>24.97</u>	<u>212</u>	<u>0.8</u>	<u>1.4</u>	<u>clear</u>	<u>69.6</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>0725</u>		SAMPLING ENDED AT: <u>0735</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>40</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-22BR</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>300</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>300</u>		
<u>MW-22BR</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>300</u>		
REMARKS: Weather: <u>clear, 73°F</u> Odor: <u>none</u>											
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: MW-23A	
DATE: 11-18-15			

PURGING DATA

WELL DIAMETER (inches): 2		TUBING DIAMETER (inches): 3/16		WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet		STATIC DEPTH TO WATER (feet): 17.87		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 - 17.87 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): 23			FINAL PUMP OR TUBING DEPTH IN WELL (feet): 23			PURGING INITIATED AT: 0815		PURGING ENDED AT: 0855		TOTAL VOLUME PURGED (gallons): 2.3		
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)	
0850	2	2	0.06	18.20	5.56	27.03	1310	1.47	1.7	clear	-43.2	
0853	0.2	2.2	0.06	18.20	5.65	27.05	1313	1.4	1.1	clear	-57.3	
0855	0.1	2.3	0.06	18.28	5.65	27.05	1314	1.39	1.2	clear	-58.2	
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 / PWSFL Don Thompson/Wetzel, LLC				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: 0900		SAMPLING ENDED AT: 0912	
PUMP OR TUBING DEPTH IN WELL (feet): 23				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y (N)		FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-23A	3	CG	40 ml	HCL	Prefilled by lab		8260		APP	150	
	3	CG	40 ml	None	None		8011		APP	150	
	1	PE	500 ml	HNO3	Prefilled by lab		Metals		APP	250	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3		APP	250	
MW-23A	1	PE	250 ml	None	None		TDS, Cl, NO ₃		APP	250	
REMARKS: Weather: Clear, 73°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: <u>MW-23B</u>	SAMPLE ID: <u>MW-23B</u>
DATE: <u>11-18-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>32</u> feet to <u>42</u> feet	STATIC DEPTH TO WATER (feet): <u>17.87</u>	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 <u>50</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>37</u>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>37</u>		PURGING INITIATED AT: <u>0815</u>		PURGING ENDED AT: <u>0837</u>		TOTAL VOLUME PURGED (gallons): <u>1.8</u>			
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)
<u>0830</u>	<u>1.2</u>	<u>1.2</u>	<u>0.08</u>	<u>17.90</u>	<u>4.16</u>	<u>26.38</u>	<u>895</u>	<u>1.41</u>	<u>0.4</u>	<u>clear</u>	<u>90.3</u>
<u>0835</u>	<u>0.4</u>	<u>1.6</u>	<u>0.08</u>	<u>17.90</u>	<u>4.14</u>	<u>26.40</u>	<u>896</u>	<u>1.09</u>	<u>0.4</u>	<u>clear</u>	<u>107.6</u>
<u>0837</u>	<u>0.2</u>	<u>1.8</u>	<u>0.08</u>	<u>17.90</u>	<u>4.16</u>	<u>26.40</u>	<u>896</u>	<u>1.05</u>	<u>0.5</u>	<u>clear</u>	<u>98.0</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>0840</u>		SAMPLING ENDED AT: <u>0850</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>37</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-23B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>APP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>APP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>500 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>APP</u>	<u>300</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>APP</u>	<u>300</u>		
<u>MW-23B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>APP</u>	<u>300</u>		
REMARKS: Weather: <u>clear, 73°F</u> Odor: <u>none</u>											
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: <u>MW-24A</u>	SAMPLE ID: <u>MW-24A</u>	DATE: <u>11-11-15</u>	

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): 7.84	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) = (<u>23</u> feet - <u>7.84</u> feet) X 0.16 gallons/foot = <u>2.43</u> 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 <u>30</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>	PURGING INITIATED AT: <u>1010</u>	PURGING ENDED AT: <u>1040</u>	TOTAL VOLUME PURGED (gallons): <u>2.4</u>							
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)
1030	1.6	1.6	0.08	7.95	4.62	25.67	89	1.01	0.1	clear	70.5
1035	0.4	2	0.08	7.95	4.62	25.68	88	0.83	0	clear	69.0
1040	0.4	2.4	0.08	7.95	4.62	25.69	88	0.78	0	clear	69.5
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 / PWSFL Don Thompson/Weiber, LLC				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>1040</u>		SAMPLING ENDED AT: <u>1048</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
<u>MW-24A</u>	3	CG	40 ml	HCL	Prefilled by lab		8260		APP		<u>125</u>	
	3	CG	40 ml	None	None		8011		APP		<u>125</u>	
	1	PE	<u>250</u> ml	HNO3	Prefilled by lab		Metals		APP		<u>300</u>	
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3		APP		<u>300</u>	
<u>MW-24A</u>	1	PE	250 ml	None	None		TDS, Cl, NO ₃		APP		<u>300</u>	
REMARKS: Weather: <u>m. sunny, 75°F</u>												
Odor: <u>none</u>												
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: <u>MW-24B</u>	SAMPLE ID: <u>MW-24B</u>
DATE: <u>11-11-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: <u>33</u> feet to <u>43</u> feet	STATIC DEPTH TO WATER (feet): <u>7.87</u>	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)				
= (<u>43</u> feet - <u>7.87</u> feet) X 0.16 gallons/foot = <u>5.2</u> 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 <u>50</u> feet) + 0.12 gallons = <u>0.4</u> gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>30</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>30</u>	PURGING INITIATED AT: <u>1005</u>	PURGING ENDED AT: <u>1113</u>	TOTAL VOLUME PURGED (gallons): <u>102</u>

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)
<u>1057</u>	<u>78</u>	<u>78</u>	<u>1.5</u>	<u>11.89</u>	<u>1.19</u>	<u>23.99</u>	<u>48</u>	<u>0.64</u>	<u>0.07</u>	<u>sw</u>	<u>90.0</u>
<u>1105</u>	<u>12</u>	<u>90</u>	<u>1.5</u>	<u>11.89</u>	<u>4.31</u>	<u>23.98</u>	<u>49</u>	<u>0.64</u>	<u>4.1</u>	<u>clear</u>	<u>83.6</u>
<u>1110</u>	<u>37.5</u>	<u>97.5</u>	<u>1.5</u>	<u>11.89</u>	<u>4.30</u>	<u>23.96</u>	<u>48</u>	<u>0.64</u>	<u>4.4</u>	<u>clear</u>	<u>86.3</u>
<u>1113</u>	<u>4.5</u>	<u>102</u>	<u>1.5</u>	<u>11.89</u>	<u>4.30</u>	<u>23.95</u>	<u>48</u>	<u>0.64</u>	<u>3.6</u>	<u>clear</u>	<u>85.8</u>

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL Don Thompson / Weibou, LLC			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: <u>1115</u>		SAMPLING ENDED AT: <u>1123</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>30</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Yes			TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-24B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>ESP</u>	<u>150</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>ESP</u>	<u>150</u>
	<u>1</u>	<u>PE</u>	<u>500 250 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>ESP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>ESP</u>	<u>400</u>
<u>MW-24B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>ESP</u>	<u>400</u>

REMARKS: Weather: M. 50-77, 75°F
 Odor: none
initial turbidity: 78 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; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

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: <u>MW-25A</u>	SAMPLE ID: <u>MW-25A</u> DATE: <u>11-11-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <u>13</u> feet to <u>23</u> feet	STATIC DEPTH TO WATER (feet): <u>443</u>	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 <u>30</u> feet) + 0.12 gallons = <u>0.2</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>	PURGING INITIATED AT: <u>1145</u>	PURGING ENDED AT: <u>1215</u>	TOTAL VOLUME PURGED (gallons): <u>2.2</u>							
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)
<u>1210</u>	<u>2</u>	<u>2</u>	<u>0.08</u>	<u>7.51</u>	<u>4.74</u>	<u>26.08</u>	<u>534</u>	<u>0.68</u>	<u>4.4</u>	<u>clear</u>	<u>4.2</u>
<u>1212</u>	<u>0.16</u>	<u>2.16</u>	<u>0.08</u>	<u>7.51</u>	<u>4.72</u>	<u>26.09</u>	<u>536</u>	<u>0.63</u>	<u>0.0</u>	<u>clear</u>	<u>4.1</u>
<u>1215</u>	<u>0.16</u>	<u>2.32</u>	<u>0.08</u>	<u>7.51</u>	<u>4.73</u>	<u>26.07</u>	<u>537</u>	<u>0.62</u>	<u>0</u>	<u>clear</u>	<u>1.8</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Joe Terry / PWSFL</u> <u>Don Thompson / Wube, LLC</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1215</u>		SAMPLING ENDED AT: <u>1223</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>18</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-25A</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>APP</u>	<u>150</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>APP</u>	<u>150</u>	
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>APP</u>	<u>300</u>	
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>APP</u>	<u>300</u>	
<u>MW-25A</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>		<u>APP</u>	<u>300</u>	
REMARKS: Weather: <u>Asunny, 77°F</u> Odor: <u>none</u>											
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: <u>MW-25B</u>	SAMPLE ID: <u>MW-25B</u> DATE: <u>11-11-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: <u>31</u> feet to <u>41</u> feet	STATIC DEPTH TO WATER (feet): <u>6.95</u>	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 <u>50</u> feet) + 0.12 gallons = <u>0.4</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>36</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>36</u>	PURGING INITIATED AT: <u>1145</u>	PURGING ENDED AT: <u>1240</u>	TOTAL VOLUME PURGED (gallons): <u>77</u>							
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)
<u>1235</u>	<u>7.0</u>	<u>7.0</u>	<u>1.4</u>	<u>9.80</u>	<u>4.81</u>	<u>24.29</u>	<u>136</u>	<u>0.6</u>	<u>144</u>	<u>14.6m</u>	<u>3.1</u>
<u>1238</u>	<u>4.2</u>	<u>74.2</u>	<u>1.4</u>	<u>9.80</u>	<u>4.92</u>	<u>24.30</u>	<u>136</u>	<u>0.6</u>	<u>144</u>	<u>" "</u>	<u>1.7</u>
<u>1240</u>	<u>2.8</u>	<u>77</u>	<u>1.4</u>	<u>9.80</u>	<u>4.82</u>	<u>24.29</u>	<u>137</u>	<u>0.62</u>	<u>143</u>	<u>" "</u>	<u>0.6</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL <u>Joe Terry</u>				SAMPLER(S) SIGNATURE(S): <u>Joe Terry</u>				SAMPLING INITIATED AT: <u>1240</u>		SAMPLING ENDED AT: <u>1247</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>36</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Yes				TUBING Y N (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-25B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>ESP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>ESP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>ESP</u>	<u>400</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>ESP</u>	<u>400</u>		
<u>MW-25B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>ESP</u>	<u>400</u>		
REMARKS: Weather: <u>cloudy 77°</u> ; initial turbidity <u>1270</u>											
Odor: <u>none</u>											
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: <u>MW-26A</u>	SAMPLE ID: <u>MW-26A</u>
DATE: <u>11-11-15</u>	

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): 8.00	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)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18				
FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10				
PURGING INITIATED AT: 1305				
PURGING ENDED AT: 1340				
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)
1330	2.5	2.5	0.1	8.04	5.08	26.27	171	0.62	15	clear	26.3
1333	0.3	2.8	0.1	8.04	5.06	26.30	156	0.55	13	clear	21.1
1337	0.4	3.2	0.1	8.04	5.04	26.39	155	0.52	10.4	clear	19.6
1340	0.3	3.5	0.1	8.04	5.04	26.35	156	0.5	10.2	clear	18.5

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 / PWSFL	SAMPLER(S) SIGNATURE(S): 	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: 1347
PUMP OR TUBING DEPTH IN WELL (feet): 18	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N	FILTER SIZE: ___ µm
FIELD DECONTAMINATION: PUMP No	TUBING No (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-26A	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	150
	3	CG	40 ml	None	None		8011	APP	150
	1	PE	250 ml	HNO3	Prefilled by lab		Metals	APP	400
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	400
MW-26A	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	400

REMARKS: Weather: Clear, 81°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: <u>MW-26B</u>	SAMPLE ID: <u>MW-26B</u>
DATE: <u>11-11-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: <u>32</u> feet to <u>42</u> feet	STATIC DEPTH TO WATER (feet): <u>8.18</u>	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)				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>37</u>				
FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>37</u>				
PURGING INITIATED AT: <u>1305</u>				
PURGING ENDED AT: <u>1403</u>				
TOTAL VOLUME PURGED (gallons): <u>92.8</u>				

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)
<u>1355</u>	<u>80</u>	<u>80</u>	<u>1.6</u>	<u>13.16</u>	<u>5.11</u>	<u>23.94</u>	<u>106</u>	<u>0.48</u>	<u>47.6</u>	<u>clear</u>	<u>25.8</u>
<u>1400</u>	<u>8</u>	<u>88</u>	<u>1.6</u>	<u>13.16</u>	<u>5.12</u>	<u>23.92</u>	<u>107</u>	<u>0.43</u>	<u>43</u>	<u>clear</u>	<u>26.2</u>
<u>1403</u>	<u>4.8</u>	<u>92.8</u>	<u>1.6</u>	<u>13.16</u>	<u>5.12</u>	<u>23.91</u>	<u>106</u>	<u>0.42</u>	<u>44</u>	<u>clear</u>	<u>25.4</u>

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL Dan Thompson / Weibu, LLC			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: <u>1405</u>		SAMPLING ENDED AT: <u>1413</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>37</u>			TUBING MATERIAL CODE: HDPE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Yes			TUBING Y N (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-26B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>ESP</u>	<u>200</u>
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>ESP</u>	<u>200</u>
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>ESP</u>	<u>400</u>
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>ESP</u>	<u>400</u>
<u>MW-26B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>ESP</u>	<u>400</u>

REMARKS: Weather: clear, B10%
 Odor: none
initial turbidity: 1325 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: <u>MW-27B</u>	SAMPLE ID: <u>MW-27B</u>
DATE: <u>11-12-15</u>	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: <u>36</u> feet to <u>46</u> feet	STATIC DEPTH TO WATER (feet): <u>16.34</u>	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 <u>55</u> feet) + 0.12 gallons = <u>0.5</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>41</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>41</u>	PURGING INITIATED AT: <u>0720</u>	PURGING ENDED AT: <u>1140</u>	TOTAL VOLUME PURGED (gallons): <u>312</u>							
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)
<u>1130</u>	<u>3.00</u>	<u>3.00</u>	<u>1.2</u>	<u>23.83</u>	<u>5.29</u>	<u>24.38</u>	<u>190</u>	<u>0.8</u>	<u>128</u>	<u>clear</u>	<u>6.4</u>
<u>1132</u>	<u>2.4</u>	<u>302.4</u>	<u>1.2</u>	<u>23.83</u>	<u>5.28</u>	<u>24.40</u>	<u>190</u>	<u>0.71</u>	<u>131</u>	<u>clear</u>	<u>6.3</u>
<u>1140</u>	<u>9.6</u>	<u>312</u>	<u>1.2</u>	<u>23.83</u>	<u>5.26</u>	<u>24.42</u>	<u>180</u>	<u>0.66</u>	<u>133</u>	<u>clear</u>	<u>5.6</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <u>1140</u>		SAMPLING ENDED AT: <u>1147</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>41</u>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Yes				TUBING Y N (replaced)				DUPLICATE : <u>(Y)</u> N		<u>Equip. Bklt</u>	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-27B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>	<u>ESP</u>	<u>200</u>		
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>	<u>ESP</u>	<u>200</u>		
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>	<u>ESP</u>	<u>400</u>		
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>	<u>ESP</u>	<u>400</u>		
<u>MW-27B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>	<u>ESP</u>	<u>400</u>		
REMARKS: Weather: <u>Clear, 77°F</u>											
Odor: <u>none</u>											
initial turbidity: <u>> 3,000 NTU</u>											
EQ Bklt time: <u>1210</u>											
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)

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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: <i>MW-28A</i>	SAMPLE ID: <i>MW-28A</i> DATE: <i>11-12-15</i>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: <i>14</i> feet to <i>24</i> feet	STATIC DEPTH TO WATER (feet): <i>16.90</i>	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) = (<i>24</i> feet - <i>16.90</i> feet) X 0.16 gallons/foot = <i>1.2</i> 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): <i>21</i>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <i>21</i>	PURGING INITIATED AT: <i>0920</i>	PURGING ENDED AT: <i>1015</i>	TOTAL VOLUME PURGED (gallons): <i>5.5</i>							
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)
<i>1000</i>	<i>4</i>	<i>4</i>	<i>0.1</i>	<i>17.41</i>	<i>4.86</i>	<i>26.34</i>	<i>161</i>	<i>0.86</i>	<i>25</i>	<i>light yellow</i>	<i>45.5</i>
<i>1005</i>	<i>0.5</i>	<i>4.5</i>	<i>0.1</i>	<i>17.41</i>	<i>4.94</i>	<i>26.32</i>	<i>160</i>	<i>0.87</i>	<i>19.2</i>	<i>" "</i>	<i>42.1</i>
<i>1010</i>	<i>0.5</i>	<i>5</i>	<i>0.1</i>	<i>17.41</i>	<i>4.94</i>	<i>26.32</i>	<i>162</i>	<i>0.87</i>	<i>17.3</i>	<i>" "</i>	<i>40.4</i>
<i>1015</i>	<i>0.5</i>	<i>5.5</i>	<i>0.1</i>	<i>17.41</i>	<i>4.94</i>	<i>26.30</i>	<i>162</i>	<i>0.74</i>	<i>17.1</i>	<i>" "</i>	<i>37.4</i>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Joe Terry / PWSFL</i> <i>Don Thompson / Weibo LLC</i>				SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>				SAMPLING INITIATED AT: <i>1015</i>		SAMPLING ENDED AT: <i>1023</i>		
PUMP OR TUBING DEPTH IN WELL (feet): <i>21</i>				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: µm		
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
<i>MW-28A</i>	<i>3</i>	<i>CG</i>	<i>40 ml</i>	<i>HCL</i>	<i>Prefilled by lab</i>		<i>8260</i>		<i>APP</i>		<i>125</i>	
	<i>3</i>	<i>CG</i>	<i>40 ml</i>	<i>None</i>	<i>None</i>		<i>8011</i>		<i>APP</i>		<i>125</i>	
	<i>1</i>	<i>PE</i>	<i>250 ml</i>	<i>HNO3</i>	<i>Prefilled by lab</i>		<i>Metals</i>		<i>APP</i>		<i>400</i>	
	<i>1</i>	<i>PE</i>	<i>125 ml</i>	<i>H2SO4</i>	<i>Prefilled by lab</i>		<i>NH3</i>		<i>APP</i>		<i>400</i>	
<i>MW-28A</i>	<i>1</i>	<i>PE</i>	<i>250 ml</i>	<i>None</i>	<i>None</i>		<i>TDS, Cl, NO3</i>		<i>APP</i>		<i>400</i>	
REMARKS: Weather: <i>clear, 73°F</i>												
Odor: <i>none</i> <i>initial turbidity: 50 NTU</i>												
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)

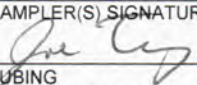
DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)	SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773
WELL NO: <u>MW-28B</u>	SAMPLE ID: <u>MW-28B</u> DATE: <u>11-12-15</u>

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: <u>38</u> feet to <u>48</u> feet	STATIC DEPTH TO WATER (feet): <u>16.78</u>	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 <u>55</u> feet) + 0.12 gallons = <u>0.5</u> gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>	PURGING INITIATED AT: <u>0915</u>	PURGING ENDED AT: <u>1045</u>	TOTAL VOLUME PURGED (gallons): <u>72</u>							
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)
<u>1035</u>	<u>64</u>	<u>64</u>	<u>0.8</u>	<u>24.77</u>	<u>5.29</u>	<u>24.41</u>	<u>145</u>	<u>1.42</u>	<u>168</u>	<u>cloudy</u>	<u>3.6</u>
<u>1040</u>	<u>41</u>	<u>69</u>	<u>0.8</u>	<u>24.77</u>	<u>5.29</u>	<u>24.47</u>	<u>146</u>	<u>0.96</u>	<u>162</u>	<u>" "</u>	<u>-7.2</u>
<u>1045</u>	<u>41</u>	<u>72</u>	<u>0.8</u>	<u>24.77</u>	<u>5.28</u>	<u>24.46</u>	<u>146</u>	<u>0.81</u>	<u>169</u>	<u>" "</u>	<u>-10.41</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>1045</u>		SAMPLING ENDED AT: <u>1057</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>43</u>				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP Yes				TUBING Y <input type="radio"/> N (replaced) <input type="radio"/>				DUPLICATE: Y <input type="radio"/> N <input checked="" type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
<u>MW-28B</u>	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>HCL</u>	<u>Prefilled by lab</u>		<u>8260</u>		<u>ESP</u>	<u>200</u>	
	<u>3</u>	<u>CG</u>	<u>40 ml</u>	<u>None</u>	<u>None</u>		<u>8011</u>		<u>ESP</u>	<u>200</u>	
	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>HNO3</u>	<u>Prefilled by lab</u>		<u>Metals</u>		<u>ESP</u>	<u>400</u>	
	<u>1</u>	<u>PE</u>	<u>125 ml</u>	<u>H2SO4</u>	<u>Prefilled by lab</u>		<u>NH3</u>		<u>ESP</u>	<u>400</u>	
<u>MW-28B</u>	<u>1</u>	<u>PE</u>	<u>250 ml</u>	<u>None</u>	<u>None</u>		<u>TDS, Cl, NO3</u>		<u>ESP</u>	<u>400</u>	
REMARKS: Weather: <u>clear, 73°F</u>											
Odor: <u>none</u>											
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-289A ^{PT 11-12-15}	SAMPLE ID: MW-29A
DATE: 11-12-15	

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): 16.60	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)											
= (23 feet - 16.60 feet) X 0.16 gallons/foot = 1.0 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: 0750	PURGING ENDED AT: 0833	TOTAL VOLUME PURGED (gallons): 4.3							
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)
0820	3	3	0.1	18.32	4.56	25.63	247	1.03	9	clear	78.9
0830	1	4	0.1	18.32	4.62	25.66	242	0.74	1.5	clear	78.8
0833	0.3	4.3	0.1	18.32	4.58	25.67	242	0.74	0	clear	82.3
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 / PWSFL Dan Thompson / Weibo, LLC				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 0835		SAMPLING ENDED AT: 0845	
PUMP OR TUBING DEPTH IN WELL (feet): 20				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N							
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-29A	3	CG	40 ml	HCL	Prefilled by lab		8260	APP	150		
	3	CG	40 ml	None	None		8011	APP	150		
	1	PE	250 ml	HNO3	Prefilled by lab		Metals	APP	400		
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	APP	400		
MW-29A	1	PE	250 ml	None	None		TDS, Cl, NO ₃	APP	400		
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-29B	SAMPLE ID: MW-29B
DATE: 11-12-18	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 0.375	WELL SCREEN INTERVAL DEPTH: 38 feet to 48 feet	STATIC DEPTH TO WATER (feet): 17.04	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)											
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 58 feet) + 0.12 gallons = 0.5 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0750	PURGING ENDED AT: 0850	TOTAL VOLUME PURGED (gallons): 42							
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)
0840	3.5	3.5	0.7	22.37	4.81	24.08	284	0.61	0	clear	12.4
0845	3.5	38.5	0.7	22.37	4.80	24.08	284	0.57	0	clear	11.9
0850	3.5	42	0.7	22.37	4.80	24.09	284	0.57	0	clear	11.5
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 / PWSFL				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 0850		SAMPLING ENDED AT: 0857	
PUMP OR TUBING DEPTH IN WELL (feet): 43				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y (N)		FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP Yes				TUBING Y N (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-29B	3	CG	40 ml	HCL	Prefilled by lab		8260	ESP	150		
	3	CG	40 ml	None	None		8011	ESP	150		
	1	PE	250 ml	HNO3	Prefilled by lab		Metals	ESP	400		
	1	PE	125 ml	H2SO4	Prefilled by lab		NH3	ESP	400		
MW-29B	1	PE	250 ml	None	None		TDS, Cl, NO ₃	ESP	400		
REMARKS: Weather: Clear, 66°F Odor: none Initial turbidity: 186 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)

APPENDIX C

Field Instrument Calibration Logs

Field Instrument Calibration Record

Site: JED Date: 11-11-15

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173A ^{QT 11-11-15} M 06A2173AL

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME12953

Time: 0940

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						
150918F	Sept. 2016	pH = 4.00	4.84	0.04	0.2	Y	C	QT
150918G	March 2017	pH = 7.00	7.10	0.1	0.2	Y	C	QT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	10.1	1	10%	Y	C	QT
5AB719	Feb 2016	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	QT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1000	0	5%	Y	I	QT
	Per Table →	D.O. = 8.06 mg/L @ 26.4°C	8.10	0.04	0.2 mg/l	Y	I	QT

Date: 11-12-15 Time: 0530

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						
150918F	Sept. 2016	pH = 4.00	4.05	0.05	0.2	Y	C	QT
150918G	March 2017	pH = 7.00	7.12	0.12	0.2	Y	C	QT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	10.2	2	10%	Y	C	QT
5AB719	Feb 2016	Conductivity = 84 µS/cm	83	1.2	5%	Y	C	QT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1,000	0	5%	Y	I	QT
	Per Table →	D.O. = 8.48 mg/L @ 23.6°C	8.52	0.04	0.2 mg/l	Y	I	QT

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 Date: 11-15-15

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173A L

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME12953

Time: 1800

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						
150918F	Sept. 2016	pH = 4.00	4.08	0.08	0.2	y	C	DT
150918G	March 2017	pH = 7.00	7.14	0.14	0.2	y	C	DT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	9.92	0.08	10%	y	I	DT
5AB719	Feb 2016	Conductivity = 84 µS/cm	87	3.6	5%	y	C	DT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1,008	0.8	5%	y	C	DT
	Per Table →	D.O. = 8.42 mg/L @ 24.0°C	8.49	0.07	0.2 mg/l	y	I	DT

Date: 11-16-15 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						
150918F	Sept. 2016	pH = 4.00	4.07	0.07	0.2	y	C	DT
150918G	March 2017	pH = 7.00	7.03	0.03	0.2	y	C	DT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	9.96	0.4	10%	y	C	DT
5AB719	Feb 2016	Conductivity = 84 µS/cm	84	0	5%	y	I	DT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1000	0	5%	y	I	DT
	Per Table →	D.O. = 8.10 mg/L @ 26.1°C	8.15	0.05	0.2 mg/l	y	I	DT

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 Date: 11-17-15

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

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME12953

Time: 1720

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						
150918F	Sept. 2016	pH = 4.00	4.06	0.06	0.2	Y	C	DT
150918G	March 2017	pH = 7.00	7.10	0.1	0.2	Y	C	DT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	9.98	0.2	10%	Y	C	DT
5AB719	Feb 2016	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	DT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1,030	3	5%	Y	C	DT
	Per Table →	D.O. = 8.36 mg/L @ 24.4°C	8.39	0.03	0.2 mg/l	Y	I	DT

Date: 11-18-15 Time: 1730

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						
150918F	Sept. 2016	pH = 4.00	4.07	0.07	0.2	Y	C	DT
150918G	March 2017	pH = 7.00	7.04	0.04	0.2	Y	C	DT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	9.89	1.1	10%	Y	C	DT
5AB719	Feb 2016	Conductivity = 84 µS/cm	85	1.2	5%	Y	C	DT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1029	2.9	5%	Y	C	DT
	Per Table →	D.O. = 8.39 mg/L @ 24.2°C	8.42	0.03	0.2 mg/l	Y	I	DT

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 Date: 11-19-15

Water Quality Instrument Make: YSI Instrument Model Number: 556 Instrument Serial Number: 06A2173A L

Turbidity Instrument Make: LaMotte Instrument Model Number: 2020e Instrument Serial Number: ME12953

Time: 1645

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						
150918F	Sept. 2016	pH = 4.00	4.08	0.08	0.2	or y	C	JT
150918G	March 2017	pH = 7.00	7.09	0.09	0.2	y	C	JT
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU	10.44	4.4	10%	y	C	JT
5AB719	Feb 2016	Conductivity = 84 µS/cm	87	3.6	5%	y	C	JT
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm	1028	2.8	5%	y	C	JT
	Per Table →	D.O. = 8.3 mg/L @ 24.8°C	8.4	0.1	0.2 mg/l	y	F	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						
150918F	Sept. 2016	pH = 4.00			0.2			
150918G	March 2017	pH = 7.00			0.2			
140820C	March 2016	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C471242	Nov 2016	Turbidity = 10 NTU			10%			
5AB719	Feb 2016	Conductivity = 84 µS/cm			5%			
		Conductivity = 500 µS/cm			5%			
150806	Aug. 2016	Conductivity = 1,000 µS/cm			5%			
	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



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR# _____
CAS Contract _____

Project Name JED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager Joe Terry		Email Address		PRESERVATIVE	1	0	2	3	0														
Company/Address PWSFL		NUMBER OF CONTAINERS		8260	8011	API Metals, Fe, Hg, Ni	Ammonia	Cl, NO ₂ , NO ₃ , TDS															
Company/Address 11457 C.R. 672																							
Company/Address Riverview, FL 33579																							
Phone # 813-943-8633		FAX #		PRESERVATIVE KEY																			
Sampler's Signature <i>Joe Terry</i>		Sampler's Printed Name Joe Terry, Don Thompson		0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____ REMARKS/ ALTERNATE DESCRIPTION																			

CLIENT SAMPLE ID	LAB ID	SAMPLING		MATRIX	NUMBER OF CONTAINERS																		
		DATE	TIME		1	2	3	4	5	6	7	8	9	10	11	12							
MW-27A		11-12-15	1130	GW	9	3	3	1	1	1													
MW-27B			1140																				
MW-28A			1015																				
MW-28B			1045																				
MW-29A			0835																				
MW-29B			0950	GW																			
Equipment Blank			1210	DI H ₂ O	9	3	3	1	1	1													
Trip Blank-2		11-12-15	0900	DI H ₂ O	1	1																	

SPECIAL INSTRUCTIONS/COMMENTS Cooler ID: 15316-JED	TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) _____ <input checked="" type="checkbox"/> STANDARD	REPORT REQUIREMENTS I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ V. Specialized Forms / Custom Report _____	INVOICE INFORMATION PO # _____ BILL TO: _____
	REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____	Edata Yes _____ No _____	

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

See QAPP

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <i>Joe Terry</i>	Signature	Signature	Signature	Signature	Signature
Printed Name Joe Terry	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm PWSFL	Firm	Firm	Firm	Firm	Firm
Date/Time 11-12-15 / 1300	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR# _____
CAS Contract _____

Project Name JED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																				
Project Manager Joe Terry		Email Address		PRESERVATIVE	1	0	2	3	0															
Company/Address PWSFL		11457 C.R. 672 Riverview, FL 33579		NUMBER OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">B260</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">B011</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">API Metals Fe, Mn, Zn, Cu</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NH₃</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cd, Pb, Ni, TDS</div> </div>																			
Phone # 813-943-8633																							FAX #	
Sampler's Signature <i>Joe Terry</i>																							Sampler's Printed Name Joe Terry	

- Preservative Key**
0. NONE
 1. HCL
 2. HNO₃
 3. H₂SO₄
 4. NaOH
 5. Zn. Acetate
 6. MeOH
 7. NaHSO₄
 8. Other _____

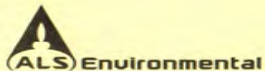
CLIENT SAMPLE ID	LAB ID	SAMPLING		MATRIX	PRESERVATIVE												REMARKS/ ALTERNATE DESCRIPTION						
		DATE	TIME		1	0	2	3	0														
MW-7A		11-17-15	1400	GW	9	3	3	1	1	1													
MW-7B			1345																				
MW-8A			1250																				
MW-8B			1230																				
MW-9A			1135																				
MW-9B			1115																				
MW-10A			0955																				
MW-10B			0940																				
MW-11A			0825																				
MW-11B			0805	GW	9	3	3	1	1	1													
Trip Blank-4		11-17-15	0000	DI-40	1	1																	

SPECIAL INSTRUCTIONS/COMMENTS Cooler ID: 15321-JED	TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) _____ <input checked="" type="checkbox"/> STANDARD	REPORT REQUIREMENTS I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ V. Specialized Forms / Custom Report _____ Edata Yes _____ No _____	INVOICE INFORMATION PO # _____ BILL TO: _____
	REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____		

See QAPP

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <i>Joe Terry</i>	Signature	Signature	Signature	Signature	Signature
Printed Name Joe Terry	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm PWSFL	Firm	Firm	Firm	Firm	Firm
Date/Time 11-17-15/1600	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

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SR# _____
CAS Contract _____

Project Name JED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																																																																																																																			
Project Manager Joe Terry		Email Address		PRESERVATIVE																																																																																																																																			
Company/Address PWSFL		FAX #		NUMBER OF CONTAINERS	<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																																																																																																																																		
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Phone # 813-943-8633																																																																																																																																							
Sampler's Signature <i>Joe Terry</i>		Sampler's Printed Name Joe Terry																																																																																																																																					

- Preservative Key
0. NONE
 1. HCL
 2. HNO₃
 3. H₂SO₄
 4. NaOH
 5. Zn. Acetate
 6. MeOH
 7. NaHSO₄
 8. Other _____

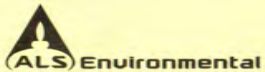
CLIENT SAMPLE ID	LAB ID	SAMPLING		MATRIX	PRESERVATIVE												REMARKS/ ALTERNATE DESCRIPTION						
		DATE	TIME		1	2	3	4	5	6	7	8	9	10	11	12							
MW-3A		11-18-15	1220	GW	9	3	3	1	1	1													
MW-3B			1155																				
MW-4A			1330																				
MW-4B			1350	GW	9	3	3	1	1	1													
Top Blank-6		11-18-15	0000	DIST H ₂ O	1	1																	

SPECIAL INSTRUCTIONS/COMMENTS Cooler ID: 15322-JED-2	TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) _____ <input checked="" type="checkbox"/> STANDARD	REPORT REQUIREMENTS I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ V. Specialized Forms / Custom Report _____	INVOICE INFORMATION PO # _____ BILL TO: _____
	REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____	Edata Yes _____ No _____	

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

See QAPP

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <i>Joe Terry</i>	Signature	Signature	Signature	Signature	Signature
Printed Name Joe Terry	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm PWSFL	Firm	Firm	Firm	Firm	Firm
Date/Time 11-18-15/1600	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time



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PAGE 1 OF 1

SR# _____
CAS Contract _____

Project Name SED SWDF		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																				
Project Manager Joe Terry		Email Address		PRESERVATIVE	1	0	2	3	0															
Company/Address PWSFL		11457 C.R. 672 Riverview, FL 33579		NUMBER OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 9260 8011 APX Metals, Fe, Hg, Mn NH₃ TDS, Cr, NO₂, NO₃ </div> <div style="font-size: small;"> Preservative Key 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO₄ 8. Other _____ </div> </div>																			
Phone # 813-943-8633																							FAX #	
Sampler's Signature <i>Joe Terry</i>																							Sampler's Printed Name Joe Terry	

CLIENT SAMPLE ID	LAB ID	SAMPLING		MATRIX	ANALYSIS REQUESTED																		
		DATE	TIME		1	0	2	3	0														
MW-5A		11-19-15	0900	GW	9	3	3	1	1	1													
MW-5B			0830																				
MW-6A			0740																				
MW-6B			0715	GW	9	3	3	1	1	1													
Tr. P Blank-7		11-19-15	0000	DI H ₂ O	1	1																	

SPECIAL INSTRUCTIONS/COMMENTS Cooler ID: 15323-SED	TURNAROUND REQUIREMENTS ____ RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD	REPORT REQUIREMENTS ____ I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) ____ III. Results + QC and Calibration Summaries ____ IV. Data Validation Report with Raw Data ____ V. Specialized Forms / Custom Report	INVOICE INFORMATION PO # _____ BILL TO: _____
	REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____	____ III. Results + QC and Calibration Summaries ____ IV. Data Validation Report with Raw Data ____ V. Specialized Forms / Custom Report Edata ____ Yes ____ No	

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____		CUSTODY SEALS: Y N			
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature <i>Joe Terry</i>	Signature	Signature	Signature	Signature	Signature
Printed Name Joe Terry	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm PWSFL	Firm	Firm	Firm	Firm	Firm
Date/Time 11-19-15/1000	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

APPENDIX E

Analytical Laboratory Reports



November 30, 2015

Service Request No:J1509244

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: JED SWDF

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 19, 2015
For your reference, these analyses have been assigned our service request number **J1509244**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1A		Lab ID: J1509244-001				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	472		2	10	mg/L	300.0
Ammonia as Nitrogen	7.01		0.007	0.010	mg/L	350.1
Iron, Total	7520		3	100	ug/L	6010B
Sodium, Total	248		0.03	0.50	mg/L	6010B
Arsenic, Total	1.0	I	0.5	1.0	ug/L	6020
Barium, Total	70.6		0.5	2.0	ug/L	6020
Beryllium, Total	0.23	I	0.04	0.50	ug/L	6020
Cobalt, Total	2.0		0.03	1.0	ug/L	6020
Chromium, Total	2.9		0.2	1.0	ug/L	6020
Copper, Total	0.6	I	0.3	1.0	ug/L	6020
Nickel, Total	5.4		0.5	2.0	ug/L	6020
Lead, Total	0.18	I	0.12	0.50	ug/L	6020
Vanadium, Total	14.5		0.3	2.0	ug/L	6020
Zinc, Total	5.9		1.6	5.0	ug/L	6020
1,4-Dichlorobenzene	0.65	I	0.16	1.0	ug/L	8260B
Acetone	16	I	5.6	50	ug/L	8260B
Benzene	2.0		0.21	1.0	ug/L	8260B
m,p-Xylenes	0.33	I	0.31	2.0	ug/L	8260B
o-Xylene	0.26	I	0.14	1.0	ug/L	8260B
Toluene	1.4		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	980		20	20	mg/L	SM 2540 C

CLIENT ID: MW-1A DUP		Lab ID: J1509244-002				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	470		2	10	mg/L	300.0
Ammonia as Nitrogen	6.86		0.007	0.010	mg/L	350.1
Iron, Total	7400		3	100	ug/L	6010B
Sodium, Total	243		0.03	0.50	mg/L	6010B
Arsenic, Total	1.2		0.5	1.0	ug/L	6020
Barium, Total	68.4		0.5	2.0	ug/L	6020
Beryllium, Total	0.22	I	0.04	0.50	ug/L	6020
Cobalt, Total	2.1		0.03	1.0	ug/L	6020
Chromium, Total	2.9		0.2	1.0	ug/L	6020
Copper, Total	0.5	I	0.3	1.0	ug/L	6020
Nickel, Total	5.4		0.5	2.0	ug/L	6020
Lead, Total	0.20	I	0.12	0.50	ug/L	6020
Vanadium, Total	14.6		0.3	2.0	ug/L	6020
Zinc, Total	6.6		1.6	5.0	ug/L	6020
Mercury, Total	0.04	I	0.02	0.10	ug/L	7470A
1,4-Dichlorobenzene	0.68	I	0.16	1.0	ug/L	8260B
Acetone	17	I	5.6	50	ug/L	8260B
Benzene	2.0		0.21	1.0	ug/L	8260B



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1A DUP Lab ID: J1509244-002

Analyte	Results	Flag	MDL	PQL	Units	Method
m,p-Xylenes	0.33	I	0.31	2.0	ug/L	8260B
o-Xylene	0.24	I	0.14	1.0	ug/L	8260B
Toluene	1.1		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	988		10	10	mg/L	SM 2540 C

CLIENT ID: MW-2A Lab ID: J1509244-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	103		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	1.92		0.007	0.010	mg/L	350.1
Iron, Total	12400		3	100	ug/L	6010B
Sodium, Total	52.3		0.03	0.50	mg/L	6010B
Arsenic, Total	0.6	I	0.5	1.0	ug/L	6020
Barium, Total	84.4		0.5	2.0	ug/L	6020
Beryllium, Total	0.22	I	0.04	0.50	ug/L	6020
Cobalt, Total	5.8		0.03	1.0	ug/L	6020
Chromium, Total	2.2		0.2	1.0	ug/L	6020
Copper, Total	0.3	I	0.3	1.0	ug/L	6020
Nickel, Total	8.2		0.5	2.0	ug/L	6020
Vanadium, Total	3.9		0.3	2.0	ug/L	6020
Zinc, Total	2.9	I	1.6	5.0	ug/L	6020
Acetone	12	I	5.6	50	ug/L	8260B
Toluene	1.2		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	601		10	10	mg/L	SM 2540 C

CLIENT ID: MW-2B Lab ID: J1509244-004

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	37.9		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.363		0.007	0.010	mg/L	350.1
Iron, Total	14900		3	100	ug/L	6010B
Sodium, Total	28.5		0.03	0.50	mg/L	6010B
Barium, Total	153		0.5	2.0	ug/L	6020
Beryllium, Total	0.40	I	0.04	0.50	ug/L	6020
Cobalt, Total	5.1		0.03	1.0	ug/L	6020
Chromium, Total	0.3	I	0.2	1.0	ug/L	6020
Nickel, Total	1.4	I	0.5	2.0	ug/L	6020
Vanadium, Total	1.7	I	0.3	2.0	ug/L	6020
Zinc, Total	2.5	I	1.6	5.0	ug/L	6020
Toluene	1.4		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	319		10	10	mg/L	SM 2540 C

CLIENT ID: MW-1B Lab ID: J1509244-005

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	194		0.2	1.0	mg/L	300.0



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1B **Lab ID: J1509244-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
Ammonia as Nitrogen	2.34		0.007	0.010	mg/L	350.1
Iron, Total	39900		3	100	ug/L	6010B
Sodium, Total	125		0.03	0.50	mg/L	6010B
Arsenic, Total	1.2		0.5	1.0	ug/L	6020
Barium, Total	63.2		0.5	2.0	ug/L	6020
Beryllium, Total	0.66		0.04	0.50	ug/L	6020
Cobalt, Total	9.8		0.03	1.0	ug/L	6020
Chromium, Total	1.1		0.2	1.0	ug/L	6020
Nickel, Total	7.4		0.5	2.0	ug/L	6020
Antimony, Total	0.3	I	0.2	1.0	ug/L	6020
Thallium, Total	0.06	I	0.05	0.20	ug/L	6020
Vanadium, Total	8.5		0.3	2.0	ug/L	6020
Zinc, Total	1.9	I	1.6	5.0	ug/L	6020
Benzene	1.2		0.21	1.0	ug/L	8260B
o-Xylene	0.21	I	0.14	1.0	ug/L	8260B
Toluene	0.87	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	914		20	20	mg/L	SM 2540 C

CLIENT ID: MW-22AR **Lab ID: J1509244-006**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	16.9		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	5.64		0.007	0.010	mg/L	350.1
Iron, Total	290		3	100	ug/L	6010B
Sodium, Total	20.7		0.03	0.50	mg/L	6010B
Arsenic, Total	1.8		0.5	1.0	ug/L	6020
Barium, Total	42.2		0.5	2.0	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	2.8		0.2	1.0	ug/L	6020
Nickel, Total	1.3	I	0.5	2.0	ug/L	6020
Antimony, Total	0.3	I	0.2	1.0	ug/L	6020
Vanadium, Total	4.7		0.3	2.0	ug/L	6020
Toluene	1.1		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	632		10	10	mg/L	SM 2540 C

CLIENT ID: MW-22BR **Lab ID: J1509244-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	25.0		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.153		0.007	0.010	mg/L	350.1
Iron, Total	4190		3	100	ug/L	6010B
Sodium, Total	20.5		0.03	0.50	mg/L	6010B
Barium, Total	41.3		0.5	2.0	ug/L	6020
Beryllium, Total	0.10	I	0.04	0.50	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-22BR Lab ID: J1509244-007

Analyte	Results	Flag	MDL	PQL	Units	Method
Cobalt, Total	1.7		0.03	1.0	ug/L	6020
Chromium, Total	0.7	I	0.2	1.0	ug/L	6020
Nickel, Total	1.0	I	0.5	2.0	ug/L	6020
Lead, Total	0.30	I	0.12	0.50	ug/L	6020
Vanadium, Total	0.7	I	0.3	2.0	ug/L	6020
Toluene	2.0		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	105		14	14	mg/L	SM 2540 C

CLIENT ID: MW-23A Lab ID: J1509244-008

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	137		0.2	1.0	mg/L	300.0
Nitrate as Nitrogen	0.04	I	0.03	0.20	mg/L	300.0
Ammonia as Nitrogen	2.81		0.007	0.010	mg/L	350.1
Iron, Total	150		3	100	ug/L	6010B
Sodium, Total	74.0		0.03	0.50	mg/L	6010B
Arsenic, Total	1.0		0.5	1.0	ug/L	6020
Barium, Total	35.6		0.5	2.0	ug/L	6020
Cobalt, Total	0.3	I	0.03	1.0	ug/L	6020
Chromium, Total	1.4		0.2	1.0	ug/L	6020
Copper, Total	0.4	I	0.3	1.0	ug/L	6020
Nickel, Total	1.6	I	0.5	2.0	ug/L	6020
Vanadium, Total	2.6		0.3	2.0	ug/L	6020
Benzene	0.28	I	0.21	1.0	ug/L	8260B
Toluene	1.3		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	785		10	10	mg/L	SM 2540 C

CLIENT ID: MW-23B Lab ID: J1509244-009

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	125		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	2.13		0.007	0.010	mg/L	350.1
Iron, Total	2720		3	100	ug/L	6010B
Sodium, Total	62.0		0.03	0.50	mg/L	6010B
Arsenic, Total	0.8	I	0.5	1.0	ug/L	6020
Barium, Total	116		0.5	2.0	ug/L	6020
Beryllium, Total	0.43	I	0.04	0.50	ug/L	6020
Cobalt, Total	1.4		0.03	1.0	ug/L	6020
Chromium, Total	0.9	I	0.2	1.0	ug/L	6020
Nickel, Total	0.8	I	0.5	2.0	ug/L	6020
Vanadium, Total	3.2		0.3	2.0	ug/L	6020
Zinc, Total	3.2	I	1.6	5.0	ug/L	6020
Toluene	0.95	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	459		10	10	mg/L	SM 2540 C

SAMPLE DETECTION SUMMARY

CLIENT ID: Trip Blank		Lab ID: J1509244-010				
Analyte	Results	Flag	MDL	PQL	Units	Method
Methylene Chloride	0.24	IV	0.21	5.0	ug/L	8260B
Toluene	0.90	I	0.19	1.0	ug/L	8260B

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF

Service Request:J1509244

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509244-001	MW-1A	11/18/2015	0955
J1509244-002	MW-1A DUP	11/18/2015	0955
J1509244-003	MW-2A	11/18/2015	1110
J1509244-004	MW-2B	11/18/2015	1050
J1509244-005	MW-1B	11/18/2015	0945
J1509244-006	MW-22AR	11/18/2015	0750
J1509244-007	MW-22BR	11/18/2015	0725
J1509244-008	MW-23A	11/18/2015	0900
J1509244-009	MW-23B	11/18/2015	0840
J1509244-010	Trip Blank	11/18/2015	0000

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1509244-001

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 06:22	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 06:22	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 06:22	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 06:22	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 06:22	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 06:22	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 06:22	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 06:22	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 06:22	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 06:22	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 06:22	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 06:22	
1,4-Dichlorobenzene	0.65 I	1.0	0.16	1	11/20/15 06:22	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 06:22	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 06:22	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 06:22	
Acetone	16 I	50	5.6	1	11/20/15 06:22	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 06:22	
Benzene	2.0	1.0	0.21	1	11/20/15 06:22	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 06:22	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 06:22	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 06:22	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 06:22	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 06:22	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 06:22	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 06:22	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 06:22	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 06:22	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 06:22	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 06:22	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 06:22	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 06:22	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 06:22	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 06:22	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 06:22	*
m,p-Xylenes	0.33 I	2.0	0.31	1	11/20/15 06:22	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 06:22	
o-Xylene	0.26 I	1.0	0.14	1	11/20/15 06:22	
Styrene	0.29 U	1.0	0.29	1	11/20/15 06:22	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 06:22	
Toluene	1.4	1.0	0.19	1	11/20/15 06:22	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 06:22	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 06:22	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Sample Name: MW-1A
Lab Code: J1509244-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 06:22	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 06:22	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 06:22	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 06:22	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 06:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 06:22	
4-Bromofluorobenzene	99	86 - 113	11/20/15 06:22	
Dibromofluoromethane	105	86 - 112	11/20/15 06:22	
Toluene-d8	99	88 - 115	11/20/15 06:22	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Sample Name: MW-1A
Lab Code: J1509244-001

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00701 U	0.0200	0.00701	1	11/25/15 17:05	11/25/15	
1,2-Dibromoethane (EDB)	0.00701 U	0.0200	0.00701	1	11/25/15 17:05	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	96	70 - 130	11/25/15 17:05	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1509244-001

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:58	11/20/15	
Arsenic, Total	6020	1.0 I	ug/L	1.0	0.5	1	11/25/15 05:58	11/20/15	
Barium, Total	6020	70.6	ug/L	2.0	0.5	1	11/25/15 05:58	11/20/15	
Beryllium, Total	6020	0.23 I	ug/L	0.50	0.04	1	11/25/15 05:58	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 05:58	11/20/15	
Chromium, Total	6020	2.9	ug/L	1.0	0.2	1	11/25/15 05:58	11/20/15	
Cobalt, Total	6020	2.0	ug/L	1.0	0.03	1	11/25/15 05:58	11/20/15	
Copper, Total	6020	0.6 I	ug/L	1.0	0.3	1	11/25/15 05:58	11/20/15	
Iron, Total	6010B	7520	ug/L	100	3	1	11/23/15 20:28	11/23/15	
Lead, Total	6020	0.18 I	ug/L	0.50	0.12	1	11/25/15 05:58	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:32	11/25/15	
Nickel, Total	6020	5.4	ug/L	2.0	0.5	1	11/25/15 05:58	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:58	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:58	11/20/15	
Sodium, Total	6010B	248	mg/L	0.50	0.03	1	11/23/15 20:28	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:58	11/20/15	
Vanadium, Total	6020	14.5	ug/L	2.0	0.3	1	11/25/15 05:58	11/20/15	
Zinc, Total	6020	5.9	ug/L	5.0	1.6	1	11/25/15 05:58	11/20/15	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A
Lab Code: J1509244-001

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	7.01	mg/L	0.010	0.007	1	11/20/15 12:45	
Chloride	300.0	472	mg/L	10	2	10	11/24/15 21:04	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 22:32	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 22:32	
Solids, Total Dissolved	SM 2540 C	980	mg/L	20	20	2	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Sample Name: MW-1A DUP
Lab Code: J1509244-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 06:45	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 06:45	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 06:45	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 06:45	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 06:45	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 06:45	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 06:45	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 06:45	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 06:45	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 06:45	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 06:45	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 06:45	
1,4-Dichlorobenzene	0.68 I	1.0	0.16	1	11/20/15 06:45	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 06:45	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 06:45	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 06:45	
Acetone	17 I	50	5.6	1	11/20/15 06:45	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 06:45	
Benzene	2.0	1.0	0.21	1	11/20/15 06:45	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 06:45	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 06:45	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 06:45	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 06:45	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 06:45	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 06:45	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 06:45	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 06:45	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 06:45	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 06:45	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 06:45	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 06:45	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 06:45	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 06:45	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 06:45	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 06:45	*
m,p-Xylenes	0.33 I	2.0	0.31	1	11/20/15 06:45	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 06:45	
o-Xylene	0.24 I	1.0	0.14	1	11/20/15 06:45	
Styrene	0.29 U	1.0	0.29	1	11/20/15 06:45	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 06:45	
Toluene	1.1	1.0	0.19	1	11/20/15 06:45	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 06:45	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 06:45	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Sample Name: MW-1A DUP
Lab Code: J1509244-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 06:45	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 06:45	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 06:45	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 06:45	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 06:45	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/20/15 06:45	
4-Bromofluorobenzene	98	86 - 113	11/20/15 06:45	
Dibromofluoromethane	106	86 - 112	11/20/15 06:45	
Toluene-d8	99	88 - 115	11/20/15 06:45	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Sample Name: MW-1A DUP
Lab Code: J1509244-002

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0198	0.00700	1	11/25/15 17:32	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0198	0.00700	1	11/25/15 17:32	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	94	70 - 130	11/25/15 17:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A DUP
Lab Code: J1509244-002

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 06:03	11/20/15	
Arsenic, Total	6020	1.2	ug/L	1.0	0.5	1	11/25/15 06:03	11/20/15	
Barium, Total	6020	68.4	ug/L	2.0	0.5	1	11/25/15 06:03	11/20/15	
Beryllium, Total	6020	0.22 I	ug/L	0.50	0.04	1	11/25/15 06:03	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:03	11/20/15	
Chromium, Total	6020	2.9	ug/L	1.0	0.2	1	11/25/15 06:03	11/20/15	
Cobalt, Total	6020	2.1	ug/L	1.0	0.03	1	11/25/15 06:03	11/20/15	
Copper, Total	6020	0.5 I	ug/L	1.0	0.3	1	11/25/15 06:03	11/20/15	
Iron, Total	6010B	7400	ug/L	100	3	1	11/23/15 20:38	11/23/15	
Lead, Total	6020	0.20 I	ug/L	0.50	0.12	1	11/25/15 06:03	11/20/15	
Mercury, Total	7470A	0.04 I	ug/L	0.10	0.02	1	11/30/15 12:34	11/25/15	
Nickel, Total	6020	5.4	ug/L	2.0	0.5	1	11/25/15 06:03	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:03	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:03	11/20/15	
Sodium, Total	6010B	243	mg/L	0.50	0.03	1	11/23/15 20:37	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:03	11/20/15	
Vanadium, Total	6020	14.6	ug/L	2.0	0.3	1	11/25/15 06:03	11/20/15	
Zinc, Total	6020	6.6	ug/L	5.0	1.6	1	11/25/15 06:03	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1A DUP
Lab Code: J1509244-002

Service Request: J1509244
Date Collected: 11/18/15 09:55
Date Received: 11/19/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	6.86	mg/L	0.010	0.007	1	11/20/15 12:46	
Chloride	300.0	470	mg/L	10	2	10	11/24/15 21:21	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 23:22	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 23:22	
Solids, Total Dissolved	SM 2540 C	988	mg/L	10	10	1	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1509244-003

Service Request: J1509244
Date Collected: 11/18/15 11:10
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 07:08	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 07:08	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 07:08	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 07:08	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 07:08	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 07:08	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 07:08	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 07:08	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 07:08	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 07:08	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 07:08	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 07:08	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 07:08	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 07:08	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 07:08	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 07:08	
Acetone	12 I	50	5.6	1	11/20/15 07:08	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 07:08	
Benzene	0.21 U	1.0	0.21	1	11/20/15 07:08	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 07:08	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 07:08	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 07:08	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 07:08	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 07:08	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 07:08	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 07:08	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 07:08	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 07:08	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 07:08	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 07:08	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 07:08	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 07:08	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 07:08	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 07:08	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 07:08	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 07:08	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 07:08	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 07:08	
Styrene	0.29 U	1.0	0.29	1	11/20/15 07:08	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 07:08	
Toluene	1.2	1.0	0.19	1	11/20/15 07:08	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 07:08	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 07:08	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 11:10
Date Received: 11/19/15 10:00

Sample Name: MW-2A
Lab Code: J1509244-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 07:08	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 07:08	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 07:08	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 07:08	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 07:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 07:08	
4-Bromofluorobenzene	98	86 - 113	11/20/15 07:08	
Dibromofluoromethane	103	86 - 112	11/20/15 07:08	
Toluene-d8	99	88 - 115	11/20/15 07:08	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 11:10
Date Received: 11/19/15 10:00

Sample Name: MW-2A
Lab Code: J1509244-003

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00706 U	0.0202	0.00706	1	11/25/15 17:58	11/25/15	
1,2-Dibromoethane (EDB)	0.00706 U	0.0202	0.00706	1	11/25/15 17:58	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	107	70 - 130	11/25/15 17:58	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1509244-003

Service Request: J1509244
Date Collected: 11/18/15 11:10
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 06:08	11/20/15	
Arsenic, Total	6020	0.6 I	ug/L	1.0	0.5	1	11/25/15 06:08	11/20/15	
Barium, Total	6020	84.4	ug/L	2.0	0.5	1	11/25/15 06:08	11/20/15	
Beryllium, Total	6020	0.22 I	ug/L	0.50	0.04	1	11/25/15 06:08	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:08	11/20/15	
Chromium, Total	6020	2.2	ug/L	1.0	0.2	1	11/25/15 06:08	11/20/15	
Cobalt, Total	6020	5.8	ug/L	1.0	0.03	1	11/25/15 06:08	11/20/15	
Copper, Total	6020	0.3 I	ug/L	1.0	0.3	1	11/25/15 06:08	11/20/15	
Iron, Total	6010B	12400	ug/L	100	3	1	11/23/15 20:47	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 06:08	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:35	11/25/15	
Nickel, Total	6020	8.2	ug/L	2.0	0.5	1	11/25/15 06:08	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:08	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:08	11/20/15	
Sodium, Total	6010B	52.3	mg/L	0.50	0.03	1	11/23/15 20:47	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:08	11/20/15	
Vanadium, Total	6020	3.9	ug/L	2.0	0.3	1	11/25/15 06:08	11/20/15	
Zinc, Total	6020	2.9 I	ug/L	5.0	1.6	1	11/25/15 06:08	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2A
Lab Code: J1509244-003

Service Request: J1509244
Date Collected: 11/18/15 11:10
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	1.92	mg/L	0.010	0.007	1	11/20/15 12:47	
Chloride	300.0	103	mg/L	1.0	0.2	1	11/19/15 23:38	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 23:38	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 23:38	
Solids, Total Dissolved	SM 2540 C	601	mg/L	10	10	1	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1509244-004

Service Request: J1509244
Date Collected: 11/18/15 10:50
Date Received: 11/19/15 10:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 07:30	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 07:30	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 07:30	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 07:30	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 07:30	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 07:30	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 07:30	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 07:30	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 07:30	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 07:30	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 07:30	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 07:30	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 07:30	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 07:30	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 07:30	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 07:30	
Acetone	5.6 U	50	5.6	1	11/20/15 07:30	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 07:30	
Benzene	0.21 U	1.0	0.21	1	11/20/15 07:30	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 07:30	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 07:30	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 07:30	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 07:30	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 07:30	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 07:30	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 07:30	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 07:30	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 07:30	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 07:30	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 07:30	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 07:30	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 07:30	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 07:30	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 07:30	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 07:30	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 07:30	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 07:30	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 07:30	
Styrene	0.29 U	1.0	0.29	1	11/20/15 07:30	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 07:30	
Toluene	1.4	1.0	0.19	1	11/20/15 07:30	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 07:30	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 07:30	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1509244-004

Service Request: J1509244
Date Collected: 11/18/15 10:50
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 07:30	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 07:30	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 07:30	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 07:30	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 07:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/20/15 07:30	
4-Bromofluorobenzene	99	86 - 113	11/20/15 07:30	
Dibromofluoromethane	104	86 - 112	11/20/15 07:30	
Toluene-d8	98	88 - 115	11/20/15 07:30	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 10:50
Date Received: 11/19/15 10:00

Sample Name: MW-2B
Lab Code: J1509244-004

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 18:50	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 18:50	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	104	70 - 130	11/25/15 18:50	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1509244-004

Service Request: J1509244
Date Collected: 11/18/15 10:50
Date Received: 11/19/15 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 06:14	11/20/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 06:14	11/20/15	
Barium, Total	6020	153	ug/L	2.0	0.5	1	11/25/15 06:14	11/20/15	
Beryllium, Total	6020	0.40 I	ug/L	0.50	0.04	1	11/25/15 06:14	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:14	11/20/15	
Chromium, Total	6020	0.3 I	ug/L	1.0	0.2	1	11/25/15 06:14	11/20/15	
Cobalt, Total	6020	5.1	ug/L	1.0	0.03	1	11/25/15 06:14	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 06:14	11/20/15	
Iron, Total	6010B	14900	ug/L	100	3	1	11/23/15 20:52	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 06:14	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:36	11/25/15	
Nickel, Total	6020	1.4 I	ug/L	2.0	0.5	1	11/25/15 06:14	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:14	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:14	11/20/15	
Sodium, Total	6010B	28.5	mg/L	0.50	0.03	1	11/23/15 20:52	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:14	11/20/15	
Vanadium, Total	6020	1.7 I	ug/L	2.0	0.3	1	11/25/15 06:14	11/20/15	
Zinc, Total	6020	2.5 I	ug/L	5.0	1.6	1	11/25/15 06:14	11/20/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-2B
Lab Code: J1509244-004

Service Request: J1509244
Date Collected: 11/18/15 10:50
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.363	mg/L	0.010	0.007	1	11/20/15 12:54	
Chloride	300.0	37.9	mg/L	1.0	0.2	1	11/19/15 23:55	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 23:55	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 23:55	
Solids, Total Dissolved	SM 2540 C	319	mg/L	10	10	1	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1B
Lab Code: J1509244-005

Service Request: J1509244
Date Collected: 11/18/15 09:45
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 07:53	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 07:53	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 07:53	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 07:53	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 07:53	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 07:53	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 07:53	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 07:53	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 07:53	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 07:53	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 07:53	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 07:53	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 07:53	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 07:53	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 07:53	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 07:53	
Acetone	5.6 U	50	5.6	1	11/20/15 07:53	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 07:53	
Benzene	1.2	1.0	0.21	1	11/20/15 07:53	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 07:53	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 07:53	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 07:53	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 07:53	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 07:53	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 07:53	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 07:53	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 07:53	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 07:53	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 07:53	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 07:53	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 07:53	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 07:53	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 07:53	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 07:53	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 07:53	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 07:53	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 07:53	
o-Xylene	0.21 I	1.0	0.14	1	11/20/15 07:53	
Styrene	0.29 U	1.0	0.29	1	11/20/15 07:53	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 07:53	
Toluene	0.87 I	1.0	0.19	1	11/20/15 07:53	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 07:53	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 07:53	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:45
Date Received: 11/19/15 10:00

Sample Name: MW-1B
Lab Code: J1509244-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 07:53	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 07:53	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 07:53	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 07:53	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 07:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 07:53	
4-Bromofluorobenzene	98	86 - 113	11/20/15 07:53	
Dibromofluoromethane	104	86 - 112	11/20/15 07:53	
Toluene-d8	98	88 - 115	11/20/15 07:53	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:45
Date Received: 11/19/15 10:00

Sample Name: MW-1B
Lab Code: J1509244-005

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0198	0.00700	1	11/25/15 19:16	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0198	0.00700	1	11/25/15 19:16	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	103	70 - 130	11/25/15 19:16	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1B
Lab Code: J1509244-005

Service Request: J1509244
Date Collected: 11/18/15 09:45
Date Received: 11/19/15 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.3 I	ug/L	1.0	0.2	1	11/25/15 06:19	11/20/15	
Arsenic, Total	6020	1.2	ug/L	1.0	0.5	1	11/25/15 06:19	11/20/15	
Barium, Total	6020	63.2	ug/L	2.0	0.5	1	11/25/15 06:19	11/20/15	
Beryllium, Total	6020	0.66	ug/L	0.50	0.04	1	11/25/15 06:19	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:19	11/20/15	
Chromium, Total	6020	1.1	ug/L	1.0	0.2	1	11/25/15 06:19	11/20/15	
Cobalt, Total	6020	9.8	ug/L	1.0	0.03	1	11/25/15 06:19	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 06:19	11/20/15	
Iron, Total	6010B	39900	ug/L	100	3	1	11/23/15 20:57	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 06:19	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:48	11/25/15	
Nickel, Total	6020	7.4	ug/L	2.0	0.5	1	11/25/15 06:19	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:19	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:19	11/20/15	
Sodium, Total	6010B	125	mg/L	0.50	0.03	1	11/23/15 20:56	11/23/15	
Thallium, Total	6020	0.06 I	ug/L	0.20	0.05	1	11/25/15 06:19	11/20/15	
Vanadium, Total	6020	8.5	ug/L	2.0	0.3	1	11/25/15 06:19	11/20/15	
Zinc, Total	6020	1.9 I	ug/L	5.0	1.6	1	11/25/15 06:19	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-1B
Lab Code: J1509244-005

Service Request: J1509244
Date Collected: 11/18/15 09:45
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	2.34	mg/L	0.010	0.007	1	11/20/15 12:55	
Chloride	300.0	194	mg/L	1.0	0.2	1	11/20/15 00:11	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 00:11	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 00:11	
Solids, Total Dissolved	SM 2540 C	914	mg/L	20	20	2	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 07:50
Date Received: 11/19/15 10:00

Sample Name: MW-22AR
Lab Code: J1509244-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 08:16	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 08:16	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 08:16	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 08:16	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 08:16	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 08:16	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 08:16	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 08:16	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 08:16	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 08:16	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 08:16	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 08:16	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 08:16	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 08:16	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 08:16	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 08:16	
Acetone	5.6 U	50	5.6	1	11/20/15 08:16	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 08:16	
Benzene	0.21 U	1.0	0.21	1	11/20/15 08:16	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 08:16	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 08:16	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 08:16	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 08:16	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 08:16	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 08:16	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 08:16	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 08:16	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 08:16	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 08:16	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 08:16	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 08:16	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 08:16	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 08:16	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 08:16	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 08:16	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 08:16	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 08:16	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 08:16	
Styrene	0.29 U	1.0	0.29	1	11/20/15 08:16	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 08:16	
Toluene	1.1	1.0	0.19	1	11/20/15 08:16	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 08:16	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 08:16	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-22AR
Lab Code: J1509244-006

Service Request: J1509244
Date Collected: 11/18/15 07:50
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 08:16	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 08:16	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 08:16	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 08:16	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 08:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/20/15 08:16	
4-Bromofluorobenzene	97	86 - 113	11/20/15 08:16	
Dibromofluoromethane	105	86 - 112	11/20/15 08:16	
Toluene-d8	99	88 - 115	11/20/15 08:16	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 07:50
Date Received: 11/19/15 10:00

Sample Name: MW-22AR
Lab Code: J1509244-006

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0198	0.00700	1	11/25/15 19:42	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0198	0.00700	1	11/25/15 19:42	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	95	70 - 130	11/25/15 19:42	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-22AR
Lab Code: J1509244-006

Service Request: J1509244
Date Collected: 11/18/15 07:50
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.3 I	ug/L	1.0	0.2	1	11/25/15 06:35	11/20/15	
Arsenic, Total	6020	1.8	ug/L	1.0	0.5	1	11/25/15 06:35	11/20/15	
Barium, Total	6020	42.2	ug/L	2.0	0.5	1	11/25/15 06:35	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 06:35	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:35	11/20/15	
Chromium, Total	6020	2.8	ug/L	1.0	0.2	1	11/25/15 06:35	11/20/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 06:35	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 06:35	11/20/15	
Iron, Total	6010B	290	ug/L	100	3	1	11/23/15 21:01	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 06:35	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:50	11/25/15	
Nickel, Total	6020	1.3 I	ug/L	2.0	0.5	1	11/25/15 06:35	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:35	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:35	11/20/15	
Sodium, Total	6010B	20.7	mg/L	0.50	0.03	1	11/23/15 21:01	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:35	11/20/15	
Vanadium, Total	6020	4.7	ug/L	2.0	0.3	1	11/25/15 06:35	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 06:35	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-22AR
Lab Code: J1509244-006

Service Request: J1509244
Date Collected: 11/18/15 07:50
Date Received: 11/19/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	5.64	mg/L	0.010	0.007	1	11/20/15 12:56	
Chloride	300.0	16.9	mg/L	1.0	0.2	1	11/20/15 00:28	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 00:28	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 00:28	
Solids, Total Dissolved	SM 2540 C	632	mg/L	10	10	1	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-22BR
Lab Code: J1509244-007

Service Request: J1509244
Date Collected: 11/18/15 07:25
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 08:39	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 08:39	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 08:39	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 08:39	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 08:39	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 08:39	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 08:39	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 08:39	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 08:39	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 08:39	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 08:39	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 08:39	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 08:39	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 08:39	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 08:39	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 08:39	
Acetone	5.6 U	50	5.6	1	11/20/15 08:39	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 08:39	
Benzene	0.21 U	1.0	0.21	1	11/20/15 08:39	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 08:39	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 08:39	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 08:39	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 08:39	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 08:39	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 08:39	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 08:39	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 08:39	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 08:39	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 08:39	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 08:39	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 08:39	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 08:39	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 08:39	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 08:39	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 08:39	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 08:39	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 08:39	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 08:39	
Styrene	0.29 U	1.0	0.29	1	11/20/15 08:39	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 08:39	
Toluene	2.0	1.0	0.19	1	11/20/15 08:39	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 08:39	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 08:39	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 07:25
Date Received: 11/19/15 10:00

Sample Name: MW-22BR
Lab Code: J1509244-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 08:39	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 08:39	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 08:39	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 08:39	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 08:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	107	72 - 121	11/20/15 08:39	
4-Bromofluorobenzene	98	86 - 113	11/20/15 08:39	
Dibromofluoromethane	105	86 - 112	11/20/15 08:39	
Toluene-d8	99	88 - 115	11/20/15 08:39	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 07:25
Date Received: 11/19/15 10:00

Sample Name: MW-22BR
Lab Code: J1509244-007

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00711 U	0.0203	0.00711	1	11/25/15 20:08	11/25/15	
1,2-Dibromoethane (EDB)	0.00711 U	0.0203	0.00711	1	11/25/15 20:08	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	107	70 - 130	11/25/15 20:08	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-22BR
Lab Code: J1509244-007

Service Request: J1509244
Date Collected: 11/18/15 07:25
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 06:41	11/20/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 06:41	11/20/15	
Barium, Total	6020	41.3	ug/L	2.0	0.5	1	11/25/15 06:41	11/20/15	
Beryllium, Total	6020	0.10 I	ug/L	0.50	0.04	1	11/25/15 06:41	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:41	11/20/15	
Chromium, Total	6020	0.7 I	ug/L	1.0	0.2	1	11/25/15 06:41	11/20/15	
Cobalt, Total	6020	1.7	ug/L	1.0	0.03	1	11/25/15 06:41	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 06:41	11/20/15	
Iron, Total	6010B	4190	ug/L	100	3	1	11/23/15 21:06	11/23/15	
Lead, Total	6020	0.30 I	ug/L	0.50	0.12	1	11/25/15 06:41	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:51	11/25/15	
Nickel, Total	6020	1.0 I	ug/L	2.0	0.5	1	11/25/15 06:41	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:41	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:41	11/20/15	
Sodium, Total	6010B	20.5	mg/L	0.50	0.03	1	11/23/15 21:06	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:41	11/20/15	
Vanadium, Total	6020	0.7 I	ug/L	2.0	0.3	1	11/25/15 06:41	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 06:41	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-22BR
Lab Code: J1509244-007

Service Request: J1509244
Date Collected: 11/18/15 07:25
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.153	mg/L	0.010	0.007	1	11/20/15 12:59	
Chloride	300.0	25.0	mg/L	1.0	0.2	1	11/20/15 01:17	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 01:17	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 01:17	
Solids, Total Dissolved	SM 2540 C	105	mg/L	14	14	1.333	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:00
Date Received: 11/19/15 10:00

Sample Name: MW-23A
Lab Code: J1509244-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 09:02	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 09:02	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 09:02	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 09:02	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 09:02	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 09:02	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 09:02	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 09:02	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 09:02	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 09:02	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 09:02	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 09:02	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 09:02	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 09:02	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 09:02	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 09:02	
Acetone	5.6 U	50	5.6	1	11/20/15 09:02	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 09:02	
Benzene	0.28 I	1.0	0.21	1	11/20/15 09:02	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 09:02	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 09:02	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 09:02	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 09:02	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 09:02	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 09:02	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 09:02	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 09:02	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 09:02	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 09:02	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 09:02	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 09:02	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 09:02	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 09:02	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 09:02	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 09:02	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 09:02	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 09:02	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 09:02	
Styrene	0.29 U	1.0	0.29	1	11/20/15 09:02	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 09:02	
Toluene	1.3	1.0	0.19	1	11/20/15 09:02	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 09:02	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 09:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:00
Date Received: 11/19/15 10:00

Sample Name: MW-23A
Lab Code: J1509244-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 09:02	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 09:02	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 09:02	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 09:02	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 09:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 09:02	
4-Bromofluorobenzene	98	86 - 113	11/20/15 09:02	
Dibromofluoromethane	104	86 - 112	11/20/15 09:02	
Toluene-d8	99	88 - 115	11/20/15 09:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 09:00
Date Received: 11/19/15 10:00

Sample Name: MW-23A
Lab Code: J1509244-008

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00708 U	0.0202	0.00708	1	11/25/15 20:34	11/25/15	
1,2-Dibromoethane (EDB)	0.00708 U	0.0202	0.00708	1	11/25/15 20:34	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	104	70 - 130	11/25/15 20:34	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23A
Lab Code: J1509244-008

Service Request: J1509244
Date Collected: 11/18/15 09:00
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 06:46	11/20/15	
Arsenic, Total	6020	1.0	ug/L	1.0	0.5	1	11/25/15 06:46	11/20/15	
Barium, Total	6020	35.6	ug/L	2.0	0.5	1	11/25/15 06:46	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 06:46	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:46	11/20/15	
Chromium, Total	6020	1.4	ug/L	1.0	0.2	1	11/25/15 06:46	11/20/15	
Cobalt, Total	6020	0.3 I	ug/L	1.0	0.03	1	11/25/15 06:46	11/20/15	
Copper, Total	6020	0.4 I	ug/L	1.0	0.3	1	11/25/15 06:46	11/20/15	
Iron, Total	6010B	150	ug/L	100	3	1	11/23/15 21:11	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 06:46	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:53	11/25/15	
Nickel, Total	6020	1.6 I	ug/L	2.0	0.5	1	11/25/15 06:46	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:46	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:46	11/20/15	
Sodium, Total	6010B	74.0	mg/L	0.50	0.03	1	11/23/15 21:11	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:46	11/20/15	
Vanadium, Total	6020	2.6	ug/L	2.0	0.3	1	11/25/15 06:46	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 06:46	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23A
Lab Code: J1509244-008

Service Request: J1509244
Date Collected: 11/18/15 09:00
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	2.81	mg/L	0.010	0.007	1	11/20/15 13:00	
Chloride	300.0	137	mg/L	1.0	0.2	1	11/20/15 01:34	
Nitrate as Nitrogen	300.0	0.04 I	mg/L	0.20	0.03	1	11/20/15 01:34	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 01:34	
Solids, Total Dissolved	SM 2540 C	785	mg/L	10	10	1	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1509244-009

Service Request: J1509244
Date Collected: 11/18/15 08:40
Date Received: 11/19/15 10:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 09:25	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 09:25	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 09:25	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 09:25	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 09:25	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 09:25	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 09:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 09:25	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 09:25	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 09:25	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 09:25	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 09:25	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 09:25	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 09:25	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 09:25	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 09:25	
Acetone	5.6 U	50	5.6	1	11/20/15 09:25	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 09:25	
Benzene	0.21 U	1.0	0.21	1	11/20/15 09:25	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 09:25	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 09:25	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 09:25	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 09:25	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 09:25	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 09:25	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 09:25	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 09:25	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 09:25	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 09:25	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 09:25	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 09:25	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 09:25	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 09:25	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 09:25	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 09:25	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 09:25	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 09:25	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 09:25	
Styrene	0.29 U	1.0	0.29	1	11/20/15 09:25	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 09:25	
Toluene	0.95 I	1.0	0.19	1	11/20/15 09:25	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 09:25	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 09:25	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 08:40
Date Received: 11/19/15 10:00

Sample Name: MW-23B
Lab Code: J1509244-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 09:25	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 09:25	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 09:25	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 09:25	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 09:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	107	72 - 121	11/20/15 09:25	
4-Bromofluorobenzene	98	86 - 113	11/20/15 09:25	
Dibromofluoromethane	104	86 - 112	11/20/15 09:25	
Toluene-d8	99	88 - 115	11/20/15 09:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 08:40
Date Received: 11/19/15 10:00

Sample Name: MW-23B
Lab Code: J1509244-009

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00710 U	0.0203	0.00710	1	11/25/15 21:00	11/25/15	
1,2-Dibromoethane (EDB)	0.00710 U	0.0203	0.00710	1	11/25/15 21:00	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	100	70 - 130	11/25/15 21:00	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1509244-009

Service Request: J1509244
Date Collected: 11/18/15 08:40
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 06:52	11/20/15	
Arsenic, Total	6020	0.8 I	ug/L	1.0	0.5	1	11/25/15 06:52	11/20/15	
Barium, Total	6020	116	ug/L	2.0	0.5	1	11/25/15 06:52	11/20/15	
Beryllium, Total	6020	0.43 I	ug/L	0.50	0.04	1	11/25/15 06:52	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 06:52	11/20/15	
Chromium, Total	6020	0.9 I	ug/L	1.0	0.2	1	11/25/15 06:52	11/20/15	
Cobalt, Total	6020	1.4	ug/L	1.0	0.03	1	11/25/15 06:52	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 06:52	11/20/15	
Iron, Total	6010B	2720	ug/L	100	3	1	11/23/15 21:16	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 06:52	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:54	11/25/15	
Nickel, Total	6020	0.8 I	ug/L	2.0	0.5	1	11/25/15 06:52	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 06:52	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 06:52	11/20/15	
Sodium, Total	6010B	62.0	mg/L	0.50	0.03	1	11/23/15 21:16	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 06:52	11/20/15	
Vanadium, Total	6020	3.2	ug/L	2.0	0.3	1	11/25/15 06:52	11/20/15	
Zinc, Total	6020	3.2 I	ug/L	5.0	1.6	1	11/25/15 06:52	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-23B
Lab Code: J1509244-009

Service Request: J1509244
Date Collected: 11/18/15 08:40
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	2.13	mg/L	0.010	0.007	1	11/20/15 13:01	
Chloride	300.0	125	mg/L	1.0	0.2	1	11/20/15 01:50	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 01:50	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 01:50	
Solids, Total Dissolved	SM 2540 C	459	mg/L	10	10	1	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 00:00
Date Received: 11/19/15 10:00

Sample Name: Trip Blank
Lab Code: J1509244-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 04:28	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 04:28	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 04:28	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 04:28	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 04:28	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 04:28	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 04:28	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 04:28	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 04:28	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 04:28	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 04:28	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 04:28	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 04:28	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 04:28	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 04:28	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 04:28	
Acetone	5.6 U	50	5.6	1	11/20/15 04:28	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 04:28	
Benzene	0.21 U	1.0	0.21	1	11/20/15 04:28	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 04:28	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 04:28	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 04:28	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 04:28	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 04:28	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 04:28	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 04:28	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 04:28	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 04:28	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 04:28	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 04:28	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 04:28	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 04:28	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 04:28	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 04:28	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 04:28	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 04:28	
Methylene Chloride	0.24 IV	5.0	0.21	1	11/20/15 04:28	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 04:28	
Styrene	0.29 U	1.0	0.29	1	11/20/15 04:28	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 04:28	
Toluene	0.90 I	1.0	0.19	1	11/20/15 04:28	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 04:28	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 04:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15 00:00
Date Received: 11/19/15 10:00

Sample Name: Trip Blank
Lab Code: J1509244-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 04:28	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 04:28	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 04:28	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 04:28	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 04:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/20/15 04:28	
4-Bromofluorobenzene	99	86 - 113	11/20/15 04:28	
Dibromofluoromethane	99	86 - 112	11/20/15 04:28	
Toluene-d8	99	88 - 115	11/20/15 04:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509077-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 03:43	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 03:43	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 03:43	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 03:43	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 03:43	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 03:43	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 03:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 03:43	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 03:43	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 03:43	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 03:43	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 03:43	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 03:43	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 03:43	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 03:43	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 03:43	
Acetone	5.6 U	50	5.6	1	11/20/15 03:43	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 03:43	
Benzene	0.21 U	1.0	0.21	1	11/20/15 03:43	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 03:43	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 03:43	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 03:43	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 03:43	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 03:43	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 03:43	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 03:43	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 03:43	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 03:43	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 03:43	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 03:43	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 03:43	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 03:43	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 03:43	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 03:43	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 03:43	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 03:43	
Methylene Chloride	0.25 I	5.0	0.21	1	11/20/15 03:43	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 03:43	
Styrene	0.29 U	1.0	0.29	1	11/20/15 03:43	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 03:43	
Toluene	0.19 U	1.0	0.19	1	11/20/15 03:43	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 03:43	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 03:43	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509077-05

Service Request: J1509244
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 03:43	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 03:43	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 03:43	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 03:43	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 03:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/20/15 03:43	
4-Bromofluorobenzene	98	86 - 113	11/20/15 03:43	
Dibromofluoromethane	100	86 - 112	11/20/15 03:43	
Toluene-d8	99	88 - 115	11/20/15 03:43	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509232-01

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	70 - 130	11/25/15 14:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509244-MB

Service Request: J1509244
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 04:26	11/20/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 04:26	11/20/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 04:26	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 04:26	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 04:26	11/20/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 04:26	11/20/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/25/15 04:26	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 04:26	11/20/15	
Iron, Total	6010B	9	ug/L	100	3	1	11/23/15 20:08	11/23/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 04:26	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:12	11/25/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 04:26	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 04:26	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 04:26	11/20/15	
Sodium, Total	6010B	0.07	mg/L	0.50	0.03	1	11/23/15 20:08	11/23/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 04:26	11/20/15	
Vanadium, Total	6020	0.4 I	ug/L	2.0	0.3	1	11/25/15 04:26	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 04:26	11/20/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509244-MB1

Service Request: J1509244
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 13:48	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/19/15 18:41	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 18:41	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 18:41	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/20/15 11:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509244-MB2

Service Request: J1509244
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/24/15 19:25	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-1A	J1509244-001	106	99	105
MW-1A DUP	J1509244-002	104	98	106
MW-2A	J1509244-003	106	98	103
MW-2B	J1509244-004	105	99	104
MW-1B	J1509244-005	106	98	104
MW-22AR	J1509244-006	105	97	105
MW-22BR	J1509244-007	107	98	105
MW-23A	J1509244-008	106	98	104
MW-23B	J1509244-009	107	98	104
Trip Blank	J1509244-010	104	99	99
Lab Control Sample	JQ1509077-03	102	97	101
Duplicate Lab Control Sample	JQ1509077-04	101	97	102
Method Blank	JQ1509077-05	105	98	100

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-1A	J1509244-001	99
MW-1A DUP	J1509244-002	99
MW-2A	J1509244-003	99
MW-2B	J1509244-004	98
MW-1B	J1509244-005	98
MW-22AR	J1509244-006	99
MW-22BR	J1509244-007	99
MW-23A	J1509244-008	99
MW-23B	J1509244-009	99
Trip Blank	J1509244-010	99
Lab Control Sample	JQ1509077-03	98
Duplicate Lab Control Sample	JQ1509077-04	98
Method Blank	JQ1509077-05	99

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/20/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 473036

Analyte Name	Lab Control Sample JQ1509077-03			Duplicate Lab Control Sample JQ1509077-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	49.2	50.0	98	50.1	50.0	100	77-118	2	30
1,1,1-Trichloroethane (TCA)	51.9	50.0	104	53.8	50.0	108	70-122	4	30
1,1,2,2-Tetrachloroethane	52.2	50.0	104	52.4	50.0	105	66-135	<1	30
1,1,2-Trichloroethane	51.6	50.0	103	52.4	50.0	105	75-122	1	30
1,1-Dichloroethane (1,1-DCA)	54.4	50.0	109	55.4	50.0	111	79-117	2	30
1,1-Dichloroethene (1,1-DCE)	56.2	50.0	112	54.6	50.0	109	72-128	3	30
1,2,3-Trichloropropane	50.5	50.0	101	51.3	50.0	103	70-123	1	30
1,2-Dibromo-3-chloropropane (DBCP)	41.7	50.0	83	41.8	50.0	84	60-122	<1	30
1,2-Dibromoethane (EDB)	51.4	50.0	103	51.7	50.0	103	76-118	<1	30
1,2-Dichlorobenzene	50.8	50.0	102	52.5	50.0	105	81-115	3	30
1,2-Dichloroethane	51.3	50.0	103	52.5	50.0	105	70-117	2	30
1,2-Dichloropropane	53.1	50.0	106	55.0	50.0	110	79-117	3	30
1,4-Dichlorobenzene	51.4	50.0	103	52.8	50.0	106	82-115	3	30
2-Butanone (MEK)	50.3	50.0	101	51.5	50.0	103	62-138	2	30
2-Hexanone	52.4	50.0	105	52.8	50.0	106	74-127	<1	30
4-Methyl-2-pentanone (MIBK)	51.6	50.0	103	52.2	50.0	104	77-120	1	30
Acetone	50.3	50.0	101	51.7	50.0	103	42-161	3	30
Acrylonitrile	55.4	50.0	111	56.4	50.0	113	63-132	2	30
Benzene	54.5	50.0	109	56.0	50.0	112	80-117	3	30
Bromochloromethane	52.0	50.0	104	53.7	50.0	107	78-118	3	30
Bromodichloromethane	49.8	50.0	100	51.0	50.0	102	75-118	2	30
Bromoform	43.7	50.0	87	44.1	50.0	88	63-121	<1	30
Bromomethane	43.5	50.0	87	45.0	50.0	90	31-153	3	30
Carbon Disulfide	57.6	50.0	115	56.7	50.0	113	72-128	2	30
Carbon Tetrachloride	47.2	50.0	94	49.0	50.0	98	67-124	4	30
Chlorobenzene	52.8	50.0	106	54.3	50.0	109	83-118	3	30
Chloroethane	56.7	50.0	113	59.5	50.0	119	68-132	5	30
Chloroform	55.1	50.0	110	56.0	50.0	112	77-116	2	30
Chloromethane	54.0	50.0	108	56.0	50.0	112	60-128	4	30
cis-1,2-Dichloroethene	56.2	50.0	112	57.5	50.0	115	78-117	2	30
cis-1,3-Dichloropropene	48.1	50.0	96	49.4	50.0	99	80-119	3	30
Dibromochloromethane	47.5	50.0	95	48.6	50.0	97	74-121	2	30
Dibromomethane	52.1	50.0	104	52.6	50.0	105	76-117	<1	30
Ethylbenzene	52.7	50.0	105	54.2	50.0	108	82-119	3	30
Iodomethane	21.8	50.0	44 *	24.3	50.0	49 *	51-137	11	30
m,p-Xylenes	106	100	106	109	100	109	79-122	2	30
Methylene Chloride	53.6	50.0	107	54.9	50.0	110	75-123	2	30
o-Xylene	51.2	50.0	102	52.7	50.0	105	80-119	3	30
Styrene	51.8	50.0	104	53.2	50.0	106	80-121	3	30
Tetrachloroethene (PCE)	50.9	50.0	102	52.0	50.0	104	75-126	2	30
Toluene	52.6	50.0	105	54.2	50.0	108	52-152	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/20/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 473036

Lab Control Sample
JQ1509077-03

Duplicate Lab Control Sample
JQ1509077-04

Analyte Name	Lab Control Sample JQ1509077-03			Duplicate Lab Control Sample JQ1509077-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,2-Dichloroethene	56.4	50.0	113	58.2	50.0	116	75-121	3	30
trans-1,3-Dichloropropene	48.6	50.0	97	49.5	50.0	99	76-118	2	30
trans-1,4-Dichloro-2-butene	44.7	50.0	89	45.3	50.0	91	10-198	1	30
Trichloroethene (TCE)	52.8	50.0	106	54.3	50.0	109	78-122	3	30
Trichlorofluoromethane	55.9	50.0	112	56.8	50.0	114	58-134	2	30
Vinyl Acetate	48.4	50.0	97	49.8	50.0	100	36-169	3	30
Vinyl Chloride	57.6	50.0	115	59.2	50.0	118	69-138	3	30

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-1A	J1509244-001	96
MW-1A DUP	J1509244-002	94
MW-2A	J1509244-003	107
MW-2B	J1509244-004	104
MW-1B	J1509244-005	103
MW-22AR	J1509244-006	95
MW-22BR	J1509244-007	107
MW-23A	J1509244-008	104
MW-23B	J1509244-009	100
Method Blank	JQ1509232-01	116
Lab Control Sample	JQ1509232-02	102

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/30/15
Date Extracted: 11/25/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-2B
Lab Code: J1509244-004
Analysis Method: 7470A
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike J1509244-004MS		Result	Duplicate Matrix Spike J1509244-004DMS		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Mercury, Total	0.02 U	1.1	1.25	91	1.2	1.25	93	75-125	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/25/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509244-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	56.4	50.0	113	80-120
Arsenic, Total	6020	51.7	50.0	103	80-120
Barium, Total	6020	105	100	105	80-120
Beryllium, Total	6020	24.7	25.0	99	80-120
Cadmium, Total	6020	20.8	20.0	104	80-120
Chromium, Total	6020	52.0	50.0	104	80-120
Cobalt, Total	6020	52.4	50.0	105	80-120
Copper, Total	6020	52.5	50.0	105	80-120
Lead, Total	6020	25.9	25.0	104	80-120
Nickel, Total	6020	107	100	107	80-120
Selenium, Total	6020	102	100	102	80-120
Silver, Total	6020	27.1	25.0	108	80-120
Thallium, Total	6020	10.4	10.0	104	80-120
Vanadium, Total	6020	103	100	103	80-120
Zinc, Total	6020	259	250	104	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/23/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509244-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	5040	5000	101	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/23/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509244-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	25.3	25.0	101	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/30/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509244-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.28	1.25	102	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/19/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-1A
Lab Code: J1509244-001

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509244-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Nitrate as Nitrogen	300.0	0.20	0.03	0.03 U	0.03 U	NC	NC	20
Nitrite as Nitrogen	300.0	0.20	0.02	0.02 U	0.02 U	NC	NC	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-22AR
Lab Code: J1509244-006

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509244-006DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	350.1	0.010	0.007	5.64	5.64	5.64	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-22BR
Lab Code: J1509244-007

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509244-007DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	14	14	105	108	107	3	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request:J1509244
Date Collected:11/18/15
Date Received:11/19/15
Date Analyzed:11/19/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-1A
Lab Code: J1509244-001

Units:mg/L
Basis:NA

Matrix Spike
J1509244-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	0.03	5.02	5.00	100	90-110
Nitrite as Nitrogen	300.0	0.02	4.60	5.00	92	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/20/15

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-22AR
Lab Code: J1509244-006
Analysis Method: 350.1

Units: mg/L
Basis: NA

Matrix Spike
J1509244-006MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	5.64	6.63	1.00	99 #	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509244-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.947	1.00	95	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509244-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	24.9	25.0	100	90-110
Nitrate as Nitrogen	300.0	5.19	5.00	104	90-110
Nitrite as Nitrogen	300.0	5.02	5.00	100	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509244-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total Dissolved	SM 2540 C	278	300	93	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509244
Date Analyzed: 11/24/15

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L
Basis: NA
Analysis Lot: 473716

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1509244-LCS2	25.9	25.0	103	90-110

Cooler Receipt Form

Client: PWSFL
 Project: JED SWDF

Service Request #: 3150244

Cooler received on 11/19/15 and opened on 11/19/15 by SL

COURIER: ALS UPS FEDEX Client Other _____ Airbill # 7817 4223 6634

- 1 Were custody seals on outside of cooler? Yes No
- If yes, how many and where? #: 1 of 1 other _____
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) 2.8°C
- 5 Thermometer ID T124
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
 Netting Vial Holder Bubble Wrap
 Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
 HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
 Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were all VOA vials free of air bubbles? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR# **J1509244**
CAS Contract

Project Name		Project Number		ANALYSIS REQUESTED (Include Method Number & JED SWDF)		PRESERVATIVE		NUMBER OF CONTAINERS		REMARKS/ALTERNATE DESCRIPTION	
JED SWDF		J1509244		Progressive Waste Services of Florida, Inc.		5					
Project Manager: Joe Terry		Email Address:		JED SWDF		Barcode		1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO ₄ 8. Other			
Company/Address: PWSFL		11457 C.R. 672									
Phone #: 813-943-8633		Riverview, FL 33579									
Sampler's Signature: Joe Terry		Sampler's Printed Name: Joe Terry									
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	PRESERVATIVE	NUMBER OF CONTAINERS	REMARKS/ALTERNATE DESCRIPTION	SPECIAL INSTRUCTIONS/COMMENTS			
MW-1A		11-18-15	0955	GW	1	3		Cooler ID: 15322-IE0-1			
MW-1A Dup			0955		0	3					
MW-2A			1110								
MW-2B			1050								
MW-1B			0915								
MW-22AR			0750								
MW-22BR			0725								
MW-23A			0900								
MW-23B			0840								
Tri Blank-5		11-18-15	0000	DEP ₂₀		1					
SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION					
		RUSH (SURCHARGES APPLY)		1. Results Only		PO #					
		STANDARD		ii. Results + QC Summaries (LOS, DUP, MS/MSD as required)		BILL TO:					
		REQUESTED FAX DATE		iii. Results + QC and Calibration Summaries							
		REQUESTED REPORT DATE		iv. Data Validation Report with Raw Data							
				v. Specialized Forms / Custom Report							
				Edata Yes No							
				RELINQUISHED BY							
				RECEIVED BY							
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 2, 8°C		CUSTODY SEALS: Y N		RELINQUISHED BY							
RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY							
Signature: Joe Terry		Signature: [Signature]		Signature: [Signature]							
Printed Name: Joe Terry		Printed Name: [Name]		Printed Name: [Name]							
Firm: PWSFL		Firm: [Firm]		Firm: [Firm]							
Date/Time: 11-18-15 1600		Date/Time: 11/19/15 1000		Date/Time: 11/19/15 1000							



December 06, 2015

Service Request No:J1509243

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: JED SWDF

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 19, 2015
For your reference, these analyses have been assigned our service request number **J1509243**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-3A		Lab ID: J1509243-001				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	23.9		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	14.7		0.07	0.10	mg/L	350.1
Iron, Total	2080		3	100	ug/L	6010B
Sodium, Total	39.5		0.03	0.50	mg/L	6010B
Arsenic, Total	1.8		0.5	1.0	ug/L	6020
Barium, Total	66.3		0.5	2.0	ug/L	6020
Cobalt, Total	0.7	I	0.03	1.0	ug/L	6020
Chromium, Total	3.3		0.2	1.0	ug/L	6020
Copper, Total	0.7	I	0.3	1.0	ug/L	6020
Nickel, Total	2.4		0.5	2.0	ug/L	6020
Vanadium, Total	9.6		0.3	2.0	ug/L	6020
1,2-Dichloropropane	0.26	I	0.19	1.0	ug/L	8260B
1,4-Dichlorobenzene	0.88	I	0.16	1.0	ug/L	8260B
Acetone	55		5.6	50	ug/L	8260B
Benzene	6.6		0.21	1.0	ug/L	8260B
Chlorobenzene	0.36	I	0.16	1.0	ug/L	8260B
Ethylbenzene	0.45	I	0.21	1.0	ug/L	8260B
Toluene	1.2		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	735		10	10	mg/L	SM 2540 C

CLIENT ID: MW-3B		Lab ID: J1509243-002				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	25.7		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	5.18		0.007	0.010	mg/L	350.1
Iron, Total	43300		3	100	ug/L	6010B
Sodium, Total	20.2		0.03	0.50	mg/L	6010B
Arsenic, Total	0.7	I	0.5	1.0	ug/L	6020
Barium, Total	49.9		0.5	2.0	ug/L	6020
Beryllium, Total	1.87		0.04	0.50	ug/L	6020
Cobalt, Total	15.9		0.03	1.0	ug/L	6020
Chromium, Total	0.3	I	0.2	1.0	ug/L	6020
Copper, Total	0.6	I	0.3	1.0	ug/L	6020
Nickel, Total	4.7		0.5	2.0	ug/L	6020
Thallium, Total	0.07	I	0.05	0.20	ug/L	6020
Vanadium, Total	2.0		0.3	2.0	ug/L	6020
Zinc, Total	4.7	I	1.6	5.0	ug/L	6020
Toluene	0.98	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	1510		20	20	mg/L	SM 2540 C

CLIENT ID: MW-4A		Lab ID: J1509243-003				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	33.4		0.2	1.0	mg/L	300.0



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-4A		Lab ID: J1509243-003				
Analyte	Results	Flag	MDL	PQL	Units	Method
Ammonia as Nitrogen	6.45		0.007	0.010	mg/L	350.1
Iron, Total	5360		3	100	ug/L	6010B
Sodium, Total	39.9		0.03	0.50	mg/L	6010B
Arsenic, Total	1.6		0.5	1.0	ug/L	6020
Barium, Total	79.5		0.5	2.0	ug/L	6020
Beryllium, Total	0.09	I	0.04	0.50	ug/L	6020
Cobalt, Total	2.5		0.03	1.0	ug/L	6020
Chromium, Total	2.3		0.2	1.0	ug/L	6020
Copper, Total	1.5		0.3	1.0	ug/L	6020
Nickel, Total	4.9		0.5	2.0	ug/L	6020
Lead, Total	0.13	I	0.12	0.50	ug/L	6020
Vanadium, Total	3.3		0.3	2.0	ug/L	6020
Zinc, Total	7.2		1.6	5.0	ug/L	6020
Mercury, Total	0.02	I	0.02	0.10	ug/L	7470A
Acetone	7.6	I	5.6	50	ug/L	8260B
Benzene	1.7		0.21	1.0	ug/L	8260B
Toluene	0.81	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	725		10	10	mg/L	SM 2540 C

CLIENT ID: MW-4B		Lab ID: J1509243-004				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	67.0		0.2	1.0	mg/L	300.0
Nitrate as Nitrogen	0.07	I	0.03	0.20	mg/L	300.0
Ammonia as Nitrogen	3.16		0.007	0.010	mg/L	350.1
Iron, Total	980		3	100	ug/L	6010B
Sodium, Total	35.2		0.03	0.50	mg/L	6010B
Arsenic, Total	0.8	I	0.5	1.0	ug/L	6020
Barium, Total	37.7		0.5	2.0	ug/L	6020
Beryllium, Total	1.42		0.04	0.50	ug/L	6020
Cobalt, Total	0.4	I	0.03	1.0	ug/L	6020
Chromium, Total	1.2		0.2	1.0	ug/L	6020
Copper, Total	0.7	I	0.3	1.0	ug/L	6020
Nickel, Total	2.4		0.5	2.0	ug/L	6020
Thallium, Total	0.05	I	0.05	0.20	ug/L	6020
Vanadium, Total	5.0		0.3	2.0	ug/L	6020
Toluene	0.98	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	1520		20	20	mg/L	SM 2540 C

CLIENT ID: Trip Blank		Lab ID: J1509243-005				
Analyte	Results	Flag	MDL	PQL	Units	Method
Methylene Chloride	0.21	IV	0.21	5.0	ug/L	8260B
Toluene	0.94	I	0.19	1.0	ug/L	8260B

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF

Service Request:J1509243

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509243-001	MW-3A	11/18/2015	1220
J1509243-002	MW-3B	11/18/2015	1155
J1509243-003	MW-4A	11/18/2015	1330
J1509243-004	MW-4B	11/18/2015	1350
J1509243-005	Trip Blank	11/18/2015	0000

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: J1509243-001

Service Request: J1509243
Date Collected: 11/18/15 12:20
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 04:51	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 04:51	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 04:51	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 04:51	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 04:51	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 04:51	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 04:51	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 04:51	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 04:51	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 04:51	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 04:51	
1,2-Dichloropropane	0.26 I	1.0	0.19	1	11/20/15 04:51	
1,4-Dichlorobenzene	0.88 I	1.0	0.16	1	11/20/15 04:51	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 04:51	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 04:51	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 04:51	
Acetone	55	50	5.6	1	11/20/15 04:51	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 04:51	
Benzene	6.6	1.0	0.21	1	11/20/15 04:51	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 04:51	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 04:51	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 04:51	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 04:51	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 04:51	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 04:51	
Chlorobenzene	0.36 I	1.0	0.16	1	11/20/15 04:51	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 04:51	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 04:51	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 04:51	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 04:51	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 04:51	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 04:51	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 04:51	
Ethylbenzene	0.45 I	1.0	0.21	1	11/20/15 04:51	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 04:51	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 04:51	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 04:51	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 04:51	
Styrene	0.29 U	1.0	0.29	1	11/20/15 04:51	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 04:51	
Toluene	1.2	1.0	0.19	1	11/20/15 04:51	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 04:51	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 04:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 12:20
Date Received: 11/19/15 10:00

Sample Name: MW-3A
Lab Code: J1509243-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 04:51	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 04:51	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 04:51	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 04:51	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 04:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	72 - 121	11/20/15 04:51	
4-Bromofluorobenzene	99	86 - 113	11/20/15 04:51	
Dibromofluoromethane	103	86 - 112	11/20/15 04:51	
Toluene-d8	98	88 - 115	11/20/15 04:51	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 12:20
Date Received: 11/19/15 10:00

Sample Name: MW-3A
Lab Code: J1509243-001

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0199	0.00700	1	11/25/15 15:21	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	11/25/15 15:21	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	101	70 - 130	11/25/15 15:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: J1509243-001

Service Request: J1509243
Date Collected: 11/18/15 12:20
Date Received: 11/19/15 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 01:51	11/20/15	
Arsenic, Total	6020	1.8	ug/L	1.0	0.5	1	11/24/15 01:51	11/20/15	
Barium, Total	6020	66.3	ug/L	2.0	0.5	1	11/24/15 01:51	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/24/15 01:51	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 01:51	11/20/15	
Chromium, Total	6020	3.3	ug/L	1.0	0.2	1	11/24/15 01:51	11/20/15	
Cobalt, Total	6020	0.7 I	ug/L	1.0	0.03	1	11/24/15 01:51	11/20/15	
Copper, Total	6020	0.7 I	ug/L	1.0	0.3	1	11/24/15 01:51	11/20/15	
Iron, Total	6010B	2080	ug/L	100	3	1	11/21/15 01:14	11/20/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 01:51	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 13:00	11/25/15	
Nickel, Total	6020	2.4	ug/L	2.0	0.5	1	11/24/15 01:51	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 01:51	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/30/15 16:54	11/20/15	
Sodium, Total	6010B	39.5	mg/L	0.50	0.03	1	11/21/15 01:14	11/20/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 01:51	11/20/15	
Vanadium, Total	6020	9.6	ug/L	2.0	0.3	1	11/30/15 16:54	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 01:51	11/20/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3A
Lab Code: J1509243-001

Service Request: J1509243
Date Collected: 11/18/15 12:20
Date Received: 11/19/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	14.7	mg/L	0.10	0.07	10	11/20/15 13:20	
Chloride	300.0	23.9	mg/L	1.0	0.2	1	11/19/15 20:53	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 20:53	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 20:53	
Solids, Total Dissolved	SM 2540 C	735	mg/L	10	10	1	11/19/15 16:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1509243-002

Service Request: J1509243
Date Collected: 11/18/15 11:55
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 05:14	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 05:14	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 05:14	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 05:14	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 05:14	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 05:14	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 05:14	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 05:14	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 05:14	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 05:14	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 05:14	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 05:14	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 05:14	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 05:14	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 05:14	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 05:14	
Acetone	5.6 U	50	5.6	1	11/20/15 05:14	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 05:14	
Benzene	0.21 U	1.0	0.21	1	11/20/15 05:14	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 05:14	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 05:14	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 05:14	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 05:14	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 05:14	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 05:14	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 05:14	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 05:14	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 05:14	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 05:14	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 05:14	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 05:14	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 05:14	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 05:14	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 05:14	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 05:14	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 05:14	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 05:14	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 05:14	
Styrene	0.29 U	1.0	0.29	1	11/20/15 05:14	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 05:14	
Toluene	0.98 I	1.0	0.19	1	11/20/15 05:14	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 05:14	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 05:14	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 11:55
Date Received: 11/19/15 10:00

Sample Name: MW-3B
Lab Code: J1509243-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 05:14	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 05:14	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 05:14	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 05:14	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 05:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 05:14	
4-Bromofluorobenzene	99	86 - 113	11/20/15 05:14	
Dibromofluoromethane	105	86 - 112	11/20/15 05:14	
Toluene-d8	98	88 - 115	11/20/15 05:14	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 11:55
Date Received: 11/19/15 10:00

Sample Name: MW-3B
Lab Code: J1509243-002

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00707 U	0.0202	0.00707	1	11/25/15 15:47	11/25/15	
1,2-Dibromoethane (EDB)	0.00707 U	0.0202	0.00707	1	11/25/15 15:47	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	91	70 - 130	11/25/15 15:47	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1509243-002

Service Request: J1509243
Date Collected: 11/18/15 11:55
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 01:56	11/20/15	
Arsenic, Total	6020	0.7 I	ug/L	1.0	0.5	1	11/24/15 01:56	11/20/15	
Barium, Total	6020	49.9	ug/L	2.0	0.5	1	11/24/15 01:56	11/20/15	
Beryllium, Total	6020	1.87	ug/L	0.50	0.04	1	11/24/15 01:56	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 01:56	11/20/15	
Chromium, Total	6020	0.3 I	ug/L	1.0	0.2	1	11/24/15 01:56	11/20/15	
Cobalt, Total	6020	15.9	ug/L	1.0	0.03	1	11/24/15 01:56	11/20/15	
Copper, Total	6020	0.6 I	ug/L	1.0	0.3	1	11/24/15 01:56	11/20/15	
Iron, Total	6010B	43300	ug/L	100	3	1	11/21/15 01:19	11/20/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 01:56	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 13:01	11/25/15	
Nickel, Total	6020	4.7	ug/L	2.0	0.5	1	11/24/15 01:56	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 01:56	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/30/15 16:59	11/20/15	
Sodium, Total	6010B	20.2	mg/L	0.50	0.03	1	11/21/15 01:19	11/20/15	
Thallium, Total	6020	0.07 I	ug/L	0.20	0.05	1	11/24/15 01:56	11/20/15	
Vanadium, Total	6020	2.0	ug/L	2.0	0.3	1	11/30/15 16:59	11/20/15	
Zinc, Total	6020	4.7 I	ug/L	5.0	1.6	1	11/24/15 01:56	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-3B
Lab Code: J1509243-002

Service Request: J1509243
Date Collected: 11/18/15 11:55
Date Received: 11/19/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	5.18	mg/L	0.010	0.007	1	11/20/15 12:42	
Chloride	300.0	25.7	mg/L	1.0	0.2	1	11/19/15 21:10	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 21:10	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 21:10	
Solids, Total Dissolved	SM 2540 C	1510	mg/L	20	20	2	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4A
Lab Code: J1509243-003

Service Request: J1509243
Date Collected: 11/18/15 13:30
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 05:37	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 05:37	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 05:37	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 05:37	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 05:37	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 05:37	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 05:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 05:37	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 05:37	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 05:37	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 05:37	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 05:37	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 05:37	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 05:37	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 05:37	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 05:37	
Acetone	7.6 I	50	5.6	1	11/20/15 05:37	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 05:37	
Benzene	1.7	1.0	0.21	1	11/20/15 05:37	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 05:37	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 05:37	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 05:37	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 05:37	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 05:37	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 05:37	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 05:37	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 05:37	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 05:37	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 05:37	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 05:37	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 05:37	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 05:37	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 05:37	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 05:37	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 05:37	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 05:37	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 05:37	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 05:37	
Styrene	0.29 U	1.0	0.29	1	11/20/15 05:37	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 05:37	
Toluene	0.81 I	1.0	0.19	1	11/20/15 05:37	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 05:37	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 05:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4A
Lab Code: J1509243-003

Service Request: J1509243
Date Collected: 11/18/15 13:30
Date Received: 11/19/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 05:37	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 05:37	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 05:37	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 05:37	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 05:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/20/15 05:37	
4-Bromofluorobenzene	98	86 - 113	11/20/15 05:37	
Dibromofluoromethane	105	86 - 112	11/20/15 05:37	
Toluene-d8	99	88 - 115	11/20/15 05:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 13:30
Date Received: 11/19/15 10:00

Sample Name: MW-4A
Lab Code: J1509243-003

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00702 U	0.0200	0.00702	1	11/25/15 16:13	11/25/15	
1,2-Dibromoethane (EDB)	0.00702 U	0.0200	0.00702	1	11/25/15 16:13	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	87	70 - 130	11/25/15 16:13	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4A
Lab Code: J1509243-003

Service Request: J1509243
Date Collected: 11/18/15 13:30
Date Received: 11/19/15 10:00
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 02:12	11/20/15	
Arsenic, Total	6020	1.6	ug/L	1.0	0.5	1	11/24/15 02:12	11/20/15	
Barium, Total	6020	79.5	ug/L	2.0	0.5	1	11/24/15 02:12	11/20/15	
Beryllium, Total	6020	0.09 I	ug/L	0.50	0.04	1	11/24/15 02:12	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 02:12	11/20/15	
Chromium, Total	6020	2.3	ug/L	1.0	0.2	1	11/24/15 02:12	11/20/15	
Cobalt, Total	6020	2.5	ug/L	1.0	0.03	1	11/24/15 02:12	11/20/15	
Copper, Total	6020	1.5	ug/L	1.0	0.3	1	11/24/15 02:12	11/20/15	
Iron, Total	6010B	5360	ug/L	100	3	1	11/21/15 01:24	11/20/15	
Lead, Total	6020	0.13 I	ug/L	0.50	0.12	1	11/24/15 02:12	11/20/15	
Mercury, Total	7470A	0.02 I	ug/L	0.10	0.02	1	11/30/15 13:13	11/25/15	
Nickel, Total	6020	4.9	ug/L	2.0	0.5	1	11/24/15 02:12	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 02:12	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/30/15 17:04	11/20/15	
Sodium, Total	6010B	39.9	mg/L	0.50	0.03	1	11/21/15 01:24	11/20/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 02:12	11/20/15	
Vanadium, Total	6020	3.3	ug/L	2.0	0.3	1	11/30/15 17:04	11/20/15	
Zinc, Total	6020	7.2	ug/L	5.0	1.6	1	11/24/15 02:12	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4A
Lab Code: J1509243-003

Service Request: J1509243
Date Collected: 11/18/15 13:30
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	6.45	mg/L	0.010	0.007	1	11/20/15 12:43	
Chloride	300.0	33.4	mg/L	1.0	0.2	1	11/19/15 21:59	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 21:59	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 21:59	
Solids, Total Dissolved	SM 2540 C	725	mg/L	10	10	1	11/20/15 11:28	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1509243-004

Service Request: J1509243
Date Collected: 11/18/15 13:50
Date Received: 11/19/15 10:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 05:59	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 05:59	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 05:59	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 05:59	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 05:59	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 05:59	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 05:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 05:59	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 05:59	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 05:59	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 05:59	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 05:59	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 05:59	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 05:59	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 05:59	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 05:59	
Acetone	5.6 U	50	5.6	1	11/20/15 05:59	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 05:59	
Benzene	0.21 U	1.0	0.21	1	11/20/15 05:59	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 05:59	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 05:59	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 05:59	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 05:59	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 05:59	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 05:59	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 05:59	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 05:59	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 05:59	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 05:59	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 05:59	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 05:59	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 05:59	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 05:59	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 05:59	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 05:59	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 05:59	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 05:59	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 05:59	
Styrene	0.29 U	1.0	0.29	1	11/20/15 05:59	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 05:59	
Toluene	0.98 I	1.0	0.19	1	11/20/15 05:59	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 05:59	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 05:59	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1509243-004

Service Request: J1509243
Date Collected: 11/18/15 13:50
Date Received: 11/19/15 10:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 05:59	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 05:59	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 05:59	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 05:59	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 05:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 05:59	
4-Bromofluorobenzene	97	86 - 113	11/20/15 05:59	
Dibromofluoromethane	105	86 - 112	11/20/15 05:59	
Toluene-d8	98	88 - 115	11/20/15 05:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 13:50
Date Received: 11/19/15 10:00

Sample Name: MW-4B
Lab Code: J1509243-004

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 16:39	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 16:39	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	91	70 - 130	11/25/15 16:39	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1509243-004

Service Request: J1509243
Date Collected: 11/18/15 13:50
Date Received: 11/19/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 02:39	11/20/15	
Arsenic, Total	6020	0.8 I	ug/L	1.0	0.5	1	11/24/15 02:39	11/20/15	
Barium, Total	6020	37.7	ug/L	2.0	0.5	1	11/24/15 02:39	11/20/15	
Beryllium, Total	6020	1.42	ug/L	0.50	0.04	1	11/24/15 02:39	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 02:39	11/20/15	
Chromium, Total	6020	1.2	ug/L	1.0	0.2	1	11/24/15 02:39	11/20/15	
Cobalt, Total	6020	0.4 I	ug/L	1.0	0.03	1	11/24/15 02:39	11/20/15	
Copper, Total	6020	0.7 I	ug/L	1.0	0.3	1	11/24/15 02:39	11/20/15	
Iron, Total	6010B	980	ug/L	100	3	1	11/21/15 01:28	11/20/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 02:39	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 13:15	11/25/15	
Nickel, Total	6020	2.4	ug/L	2.0	0.5	1	11/24/15 02:39	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 02:39	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/30/15 17:21	11/20/15	
Sodium, Total	6010B	35.2	mg/L	0.50	0.03	1	11/21/15 01:28	11/20/15	
Thallium, Total	6020	0.05 I	ug/L	0.20	0.05	1	11/24/15 02:39	11/20/15	
Vanadium, Total	6020	5.0	ug/L	2.0	0.3	1	11/30/15 17:21	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 02:39	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-4B
Lab Code: J1509243-004

Service Request: J1509243
Date Collected: 11/18/15 13:50
Date Received: 11/19/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	3.16	mg/L	0.010	0.007	1	11/20/15 12:44	
Chloride	300.0	67.0	mg/L	1.0	0.2	1	11/19/15 22:16	
Nitrate as Nitrogen	300.0	0.07 I	mg/L	0.20	0.03	1	11/19/15 22:16	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 22:16	
Solids, Total Dissolved	SM 2540 C	1520	mg/L	20	20	2	11/20/15 11:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 00:00
Date Received: 11/19/15 10:00

Sample Name: Trip Blank
Lab Code: J1509243-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 04:05	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 04:05	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 04:05	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 04:05	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 04:05	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 04:05	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 04:05	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 04:05	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 04:05	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 04:05	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 04:05	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 04:05	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 04:05	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 04:05	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 04:05	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 04:05	
Acetone	5.6 U	50	5.6	1	11/20/15 04:05	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 04:05	
Benzene	0.21 U	1.0	0.21	1	11/20/15 04:05	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 04:05	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 04:05	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 04:05	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 04:05	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 04:05	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 04:05	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 04:05	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 04:05	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 04:05	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 04:05	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 04:05	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 04:05	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 04:05	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 04:05	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 04:05	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 04:05	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 04:05	
Methylene Chloride	0.21 IV	5.0	0.21	1	11/20/15 04:05	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 04:05	
Styrene	0.29 U	1.0	0.29	1	11/20/15 04:05	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 04:05	
Toluene	0.94 I	1.0	0.19	1	11/20/15 04:05	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 04:05	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 04:05	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15 00:00
Date Received: 11/19/15 10:00

Sample Name: Trip Blank
Lab Code: J1509243-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 04:05	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 04:05	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 04:05	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 04:05	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 04:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/20/15 04:05	
4-Bromofluorobenzene	99	86 - 113	11/20/15 04:05	
Dibromofluoromethane	100	86 - 112	11/20/15 04:05	
Toluene-d8	100	88 - 115	11/20/15 04:05	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509077-05

Service Request: J1509243
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 03:43	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 03:43	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 03:43	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 03:43	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 03:43	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 03:43	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 03:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 03:43	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 03:43	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 03:43	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 03:43	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 03:43	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 03:43	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 03:43	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 03:43	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 03:43	
Acetone	5.6 U	50	5.6	1	11/20/15 03:43	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 03:43	
Benzene	0.21 U	1.0	0.21	1	11/20/15 03:43	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 03:43	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 03:43	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 03:43	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 03:43	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 03:43	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 03:43	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 03:43	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 03:43	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 03:43	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 03:43	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 03:43	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 03:43	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 03:43	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 03:43	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 03:43	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 03:43	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 03:43	
Methylene Chloride	0.25 I	5.0	0.21	1	11/20/15 03:43	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 03:43	
Styrene	0.29 U	1.0	0.29	1	11/20/15 03:43	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 03:43	
Toluene	0.19 U	1.0	0.19	1	11/20/15 03:43	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 03:43	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 03:43	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509077-05

Service Request: J1509243
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 03:43	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 03:43	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 03:43	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 03:43	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 03:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/20/15 03:43	
4-Bromofluorobenzene	98	86 - 113	11/20/15 03:43	
Dibromofluoromethane	100	86 - 112	11/20/15 03:43	
Toluene-d8	99	88 - 115	11/20/15 03:43	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509232-01

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	70 - 130	11/25/15 14:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509243-MB

Service Request: J1509243
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 00:03	11/20/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/24/15 00:03	11/20/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/24/15 00:03	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/24/15 00:03	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 00:03	11/20/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 00:03	11/20/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/24/15 00:03	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 00:03	11/20/15	
Iron, Total	6010B	3 U	ug/L	100	3	1	11/20/15 23:17	11/20/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 00:03	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:57	11/25/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/24/15 00:03	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 00:03	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/30/15 16:43	11/20/15	
Sodium, Total	6010B	0.03 U	mg/L	0.50	0.03	1	11/20/15 23:17	11/20/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 00:03	11/20/15	
Vanadium, Total	6020	0.3 I	ug/L	2.0	0.3	1	11/24/15 00:03	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 00:03	11/20/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509243-MB1

Service Request: J1509243
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 13:48	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/19/15 18:41	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 18:41	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 18:41	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/19/15 16:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509243-MB2

Service Request: J1509243
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/20/15 11:28	

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-3A	J1509243-001	103	99	103
MW-3B	J1509243-002	106	99	105
MW-4A	J1509243-003	105	98	105
MW-4B	J1509243-004	106	97	105
Trip Blank	J1509243-005	104	99	100
Lab Control Sample	JQ1509077-03	102	97	101
Duplicate Lab Control Sample	JQ1509077-04	101	97	102
Method Blank	JQ1509077-05	105	98	100

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-3A	J1509243-001	98
MW-3B	J1509243-002	98
MW-4A	J1509243-003	99
MW-4B	J1509243-004	98
Trip Blank	J1509243-005	100
Lab Control Sample	JQ1509077-03	98
Duplicate Lab Control Sample	JQ1509077-04	98
Method Blank	JQ1509077-05	99

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/20/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 473036

Analyte Name	Lab Control Sample JQ1509077-03			Duplicate Lab Control Sample JQ1509077-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	49.2	50.0	98	50.1	50.0	100	77-118	2	30
1,1,1-Trichloroethane (TCA)	51.9	50.0	104	53.8	50.0	108	70-122	4	30
1,1,2,2-Tetrachloroethane	52.2	50.0	104	52.4	50.0	105	66-135	<1	30
1,1,2-Trichloroethane	51.6	50.0	103	52.4	50.0	105	75-122	1	30
1,1-Dichloroethane (1,1-DCA)	54.4	50.0	109	55.4	50.0	111	79-117	2	30
1,1-Dichloroethene (1,1-DCE)	56.2	50.0	112	54.6	50.0	109	72-128	3	30
1,2,3-Trichloropropane	50.5	50.0	101	51.3	50.0	103	70-123	1	30
1,2-Dibromo-3-chloropropane (DBCP)	41.7	50.0	83	41.8	50.0	84	60-122	<1	30
1,2-Dibromoethane (EDB)	51.4	50.0	103	51.7	50.0	103	76-118	<1	30
1,2-Dichlorobenzene	50.8	50.0	102	52.5	50.0	105	81-115	3	30
1,2-Dichloroethane	51.3	50.0	103	52.5	50.0	105	70-117	2	30
1,2-Dichloropropane	53.1	50.0	106	55.0	50.0	110	79-117	3	30
1,4-Dichlorobenzene	51.4	50.0	103	52.8	50.0	106	82-115	3	30
2-Butanone (MEK)	50.3	50.0	101	51.5	50.0	103	62-138	2	30
2-Hexanone	52.4	50.0	105	52.8	50.0	106	74-127	<1	30
4-Methyl-2-pentanone (MIBK)	51.6	50.0	103	52.2	50.0	104	77-120	1	30
Acetone	50.3	50.0	101	51.7	50.0	103	42-161	3	30
Acrylonitrile	55.4	50.0	111	56.4	50.0	113	63-132	2	30
Benzene	54.5	50.0	109	56.0	50.0	112	80-117	3	30
Bromochloromethane	52.0	50.0	104	53.7	50.0	107	78-118	3	30
Bromodichloromethane	49.8	50.0	100	51.0	50.0	102	75-118	2	30
Bromoform	43.7	50.0	87	44.1	50.0	88	63-121	<1	30
Bromomethane	43.5	50.0	87	45.0	50.0	90	31-153	3	30
Carbon Disulfide	57.6	50.0	115	56.7	50.0	113	72-128	2	30
Carbon Tetrachloride	47.2	50.0	94	49.0	50.0	98	67-124	4	30
Chlorobenzene	52.8	50.0	106	54.3	50.0	109	83-118	3	30
Chloroethane	56.7	50.0	113	59.5	50.0	119	68-132	5	30
Chloroform	55.1	50.0	110	56.0	50.0	112	77-116	2	30
Chloromethane	54.0	50.0	108	56.0	50.0	112	60-128	4	30
cis-1,2-Dichloroethene	56.2	50.0	112	57.5	50.0	115	78-117	2	30
cis-1,3-Dichloropropene	48.1	50.0	96	49.4	50.0	99	80-119	3	30
Dibromochloromethane	47.5	50.0	95	48.6	50.0	97	74-121	2	30
Dibromomethane	52.1	50.0	104	52.6	50.0	105	76-117	<1	30
Ethylbenzene	52.7	50.0	105	54.2	50.0	108	82-119	3	30
Iodomethane	21.8	50.0	44 *	24.3	50.0	49 *	51-137	11	30
m,p-Xylenes	106	100	106	109	100	109	79-122	2	30
Methylene Chloride	53.6	50.0	107	54.9	50.0	110	75-123	2	30
o-Xylene	51.2	50.0	102	52.7	50.0	105	80-119	3	30
Styrene	51.8	50.0	104	53.2	50.0	106	80-121	3	30
Tetrachloroethene (PCE)	50.9	50.0	102	52.0	50.0	104	75-126	2	30
Toluene	52.6	50.0	105	54.2	50.0	108	52-152	3	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/20/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 473036

Lab Control Sample
JQ1509077-03

Duplicate Lab Control Sample
JQ1509077-04

Analyte Name	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,2-Dichloroethene	56.4	50.0	113	58.2	50.0	116	75-121	3	30
trans-1,3-Dichloropropene	48.6	50.0	97	49.5	50.0	99	76-118	2	30
trans-1,4-Dichloro-2-butene	44.7	50.0	89	45.3	50.0	91	10-198	1	30
Trichloroethene (TCE)	52.8	50.0	106	54.3	50.0	109	78-122	3	30
Trichlorofluoromethane	55.9	50.0	112	56.8	50.0	114	58-134	2	30
Vinyl Acetate	48.4	50.0	97	49.8	50.0	100	36-169	3	30
Vinyl Chloride	57.6	50.0	115	59.2	50.0	118	69-138	3	30

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-3A	J1509243-001	101
MW-3B	J1509243-002	91
MW-4A	J1509243-003	87
MW-4B	J1509243-004	91
Method Blank	JQ1509232-01	116
Lab Control Sample	JQ1509232-02	102

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request:J1509243
Date Collected:11/18/15
Date Received:11/19/15
Date Analyzed:11/24/15 - 11/30/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-4A
Lab Code: J1509243-003

Units:ug/L
Basis:NA

Matrix Spike
J1509243-003MS

Duplicate Matrix Spike
J1509243-003DMS

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit
		Result	Result	Amount	% Rec	Result	Amount			
Antimony, Total	6020	0.2	57.7	50.0	115	57.6		75-125		20
Arsenic, Total	6020	1.6	51.8	50.0	100	52.8		75-125		20
Barium, Total	6020	79.5	185	100	106	187		75-125		20
Beryllium, Total	6020	0.09	25.5	25.0	102	25.2		75-125		20
Cadmium, Total	6020	0.10	21.0	20.0	105	21.1		75-125		20
Chromium, Total	6020	2.3	54.0	50.0	103	53.2		75-125		20
Cobalt, Total	6020	2.5	52.9	50.0	101	52.3		75-125		20
Copper, Total	6020	1.5	49.7	50.0	96	49.2		75-125		20
Lead, Total	6020	0.13	25.3	25.0	101	25.1		75-125		20
Nickel, Total	6020	4.9	102	100	97	99.8		75-125		20
Selenium, Total	6020	1.1	45.0	100	45 *	43.9		75-125		20
Silver, Total	6020	0.06	23.4	25.0	93	23.9		75-125		20
Thallium, Total	6020	0.05	10.3	10.0	103	10.2		75-125		20
Vanadium, Total	6020	3.3	99.8	100	97	102		75-125		20
Zinc, Total	6020	7.2	258	250	100	260		75-125		20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Collected: 11/18/15
Date Received: 11/19/15
Date Analyzed: 11/30/15
Date Extracted: 11/25/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-3B
Lab Code: J1509243-002
Analysis Method: 7470A
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike J1509243-002MS		Duplicate Matrix Spike J1509243-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Mercury, Total	0.02 U	1.2	1.25	99	1.2	1.25	98	75-125	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/24/15 - 11/30/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509243-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	56.1	50.0	112	80-120
Arsenic, Total	6020	53.6	50.0	107	80-120
Barium, Total	6020	108	100	108	80-120
Beryllium, Total	6020	25.8	25.0	103	80-120
Cadmium, Total	6020	21.6	20.0	108	80-120
Chromium, Total	6020	52.8	50.0	106	80-120
Cobalt, Total	6020	52.6	50.0	105	80-120
Copper, Total	6020	53.0	50.0	106	80-120
Lead, Total	6020	25.6	25.0	102	80-120
Nickel, Total	6020	103	100	103	80-120
Selenium, Total	6020	102	100	102	80-120
Silver, Total	6020	24.4	25.0	98	80-120
Thallium, Total	6020	10.4	10.0	104	80-120
Vanadium, Total	6020	102	100	102	80-120
Zinc, Total	6020	259	250	104	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/20/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509243-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	4910	5000	98	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/20/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509243-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	24.7	25.0	99	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/30/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509243-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.28	1.25	102	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243

Date Collected: 11/18/15

Date Received: 11/19/15

Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-4B
Lab Code: J1509243-004

Units: mg/L

Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509243-004DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	20	20	1520	1500	1510	1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509243-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.947	1.00	95	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/19/15

**Lab Control Sample Summary
General Chemistry Parameters**

Units:mg/L
Basis:NA

**Lab Control Sample
J1509243-LCS1**

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	24.9	25.0	100	90-110
Nitrate as Nitrogen	300.0	5.19	5.00	104	90-110
Nitrite as Nitrogen	300.0	5.02	5.00	100	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509243-LCS1

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Solids, Total Dissolved	SM 2540 C	293	300	98	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509243
Date Analyzed: 11/20/15

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L
Basis: NA
Analysis Lot: 473143

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1509243-LCS2	278	300	93	85-115

Cooler Receipt Form

 Client: PWSFL
 Project: JED SWDF

 Service Request #: 31609243

 Cooler received on 11/19/15 and opened on 11/19/15 by SL

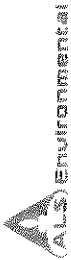
 COURIER: ALS UPS FEDEX Client Other _____ Airbill # 5817 4222 3303

- | | | | | |
|----|--|--------------------------------------|-----------------------------------|--|
| 1 | Were custody seals on outside of cooler?
If yes, how many and where? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 2 | Were seals intact and signature and date correct? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 3 | Were custody papers properly filled out? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 4 | Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) | <u>1,400</u> | | |
| 5 | Thermometer ID | <u>5124</u> | | |
| 6 | Temperature Blank Present? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 7 | Were Ice or Ice Packs present | <input checked="" type="radio"/> Ice | <input type="radio"/> Ice Packs | <input type="radio"/> No |
| 8 | Did all bottles arrive in good condition (unbroken, etc....)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 9 | Type of packing material present | <input type="radio"/> Netting | <input type="radio"/> Vial Holder | <input checked="" type="radio"/> Bubble Wrap |
| 10 | Were all bottle labels complete (sample ID, preservation, etc....)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 11 | Did all bottle labels and tags agree with custody papers? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 12 | Were the correct bottles used for the tests indicated? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 13 | Were all of the preserved bottles received with the appropriate preservative?
<small>Preservative additions noted below</small>
<u>HNO3 pH<2</u> <u>H2SO4 pH<2</u> ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2 | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 14 | Were all samples received within analysis holding times? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 15 | Were all VOA vials free of air bubbles? If present, note below | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 16 | Where did the bottles originate? | <input checked="" type="radio"/> ALS | <input type="radio"/> Client | |

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

19143 Philips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR#

J1509243

CAS Contract

5

J1509243

Progressive Waste Services of Florida, Inc.
JED SWDF



- Preservative Key
- 0. NONE
 - 1. HCL
 - 2. HNO₃
 - 3. H₂SO₄
 - 4. NaOH
 - 5. Zn Acetate
 - 6. MeOH
 - 7. NaHSO₄
 - 8. Other _____

REMARKS/
ALTERNATE DESCRIPTION

ANALYSIS REQUESTED (Include Method Number at

PRESERVATIVE	1	0	2	3	0
0260					
Boil					
APMeth B, H, M, N					
NH ₄					
TASS CL NO. 203					

Project Name: JED SWDF

Project Manager: Joe Terry

Company/Address: PWSFL

11457 C.R. 672

Riverview, FL 33579

Phone #: 813-943-8633

FAX #

Sampler's Printed Name: Joe Terry

Sampler's Signature: [Signature]

CLIENT SAMPLE ID	LAB ID	DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION
MW-3A		11-18-15	1220	GW	9	STANDARD	Results Only	PO #
MW-3B			1155				Results + QC Summaries (LCS, DUP, MS/MSD as required)	BILL TO:
MW-4A			1330				Results + QC and Calibration Summaries	
MW-4B			1350	GW	9		Data Validation Report with Raw Data	
Top Blank-6		11-18-15	0000	DFW	1		Specialized Forms / Custom Report	

See CAPP

SAMPLE RECEIPT CONDITION/COOLER TEMP:

RECEIVED BY: [Signature]

RECEIVED BY: [Signature]

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1600

Signature: [Signature]

Printed Name: Dawn Lightsey

Firm: PWSFL

Date/Time: 11-18-15/1000

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1000

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1000

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1000

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1000

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1000

Signature: [Signature]

Printed Name: Joe Terry

Firm: PWSFL

Date/Time: 11-18-15/1000

Cooler ID: 15322-JED-2



December 05, 2015

Service Request No:J1509279

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: JED SWDF

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 20, 2015
For your reference, these analyses have been assigned our service request number **J1509279**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-5A Lab ID: J1509279-001

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	18.0		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	5.10		0.007	0.010	mg/L	350.1
Iron, Total	600		3	100	ug/L	6010B
Sodium, Total	12.8		0.03	0.50	mg/L	6010B
Arsenic, Total	1.4		0.5	1.0	ug/L	6020
Barium, Total	3.6		0.5	2.0	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	3.8		0.2	1.0	ug/L	6020
Copper, Total	1.7		0.3	1.0	ug/L	6020
Nickel, Total	0.9	I	0.5	2.0	ug/L	6020
Lead, Total	1.02		0.12	0.50	ug/L	6020
Vanadium, Total	2.7		0.3	2.0	ug/L	6020
Mercury, Total	0.02	I	0.02	0.10	ug/L	7470A
Benzene	0.94	I	0.21	1.0	ug/L	8260B
Toluene	1.2		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	185		10	10	mg/L	SM 2540 C

CLIENT ID: MW-5B Lab ID: J1509279-002

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	56.3		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	2.45		0.007	0.010	mg/L	350.1
Iron, Total	670		3	100	ug/L	6010B
Sodium, Total	34.4		0.03	0.50	mg/L	6010B
Barium, Total	51.8		0.5	2.0	ug/L	6020
Beryllium, Total	0.63		0.04	0.50	ug/L	6020
Cobalt, Total	0.6	I	0.03	1.0	ug/L	6020
Chromium, Total	1.2		0.2	1.0	ug/L	6020
Copper, Total	0.4	I	0.3	1.0	ug/L	6020
Nickel, Total	3.3		0.5	2.0	ug/L	6020
Vanadium, Total	2.8		0.3	2.0	ug/L	6020
Toluene	0.98	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	1740		20	20	mg/L	SM 2540 C

CLIENT ID: MW-6A Lab ID: J1509279-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	64.3		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	3.72		0.007	0.010	mg/L	350.1
Iron, Total	18700		3	100	ug/L	6010B
Sodium, Total	33.8		0.03	0.50	mg/L	6010B
Barium, Total	6.3		0.5	2.0	ug/L	6020
Cobalt, Total	0.5	I	0.03	1.0	ug/L	6020
Chromium, Total	1.4		0.2	1.0	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-6A	Lab ID: J1509279-003
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Analyte	Results	Flag	MDL	PQL	Units	Method
Copper, Total	0.4	I	0.3	1.0	ug/L	6020
Nickel, Total	0.5	I	0.5	2.0	ug/L	6020
Vanadium, Total	4.3		0.3	2.0	ug/L	6020
Acetone	14	I	5.6	50	ug/L	8260B
Benzene	4.3		0.21	1.0	ug/L	8260B
Toluene	2.0		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	184		10	10	mg/L	SM 2540 C

CLIENT ID: MW-6B	Lab ID: J1509279-004
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Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	15.1		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.143		0.007	0.010	mg/L	350.1
Iron, Total	810		3	100	ug/L	6010B
Sodium, Total	7.85		0.03	0.50	mg/L	6010B
Barium, Total	19.8		0.5	2.0	ug/L	6020
Beryllium, Total	0.11	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	0.8	I	0.2	1.0	ug/L	6020
Vanadium, Total	1.4	I	0.3	2.0	ug/L	6020
Toluene	1.4		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	45		10	10	mg/L	SM 2540 C

CLIENT ID: Trip Blank-7	Lab ID: J1509279-005
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Analyte	Results	Flag	MDL	PQL	Units	Method
Methylene Chloride	0.26	I	0.21	5.0	ug/L	8260B
Toluene	0.96	I	0.19	1.0	ug/L	8260B

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF

Service Request:J1509279

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509279-001	MW-5A	11/19/2015	0900
J1509279-002	MW-5B	11/19/2015	0830
J1509279-003	MW-6A	11/19/2015	0740
J1509279-004	MW-6B	11/19/2015	0715
J1509279-005	Trip Blank-7	11/19/2015	0000

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5A
Lab Code: J1509279-001

Service Request: J1509279
Date Collected: 11/19/15 09:00
Date Received: 11/20/15 09:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/21/15 05:20	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/21/15 05:20	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/21/15 05:20	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/21/15 05:20	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/21/15 05:20	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/21/15 05:20	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/21/15 05:20	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/21/15 05:20	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/21/15 05:20	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/21/15 05:20	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/21/15 05:20	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/21/15 05:20	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/21/15 05:20	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/21/15 05:20	
2-Hexanone	2.2 U	25	2.2	1	11/21/15 05:20	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/21/15 05:20	
Acetone	5.6 U	50	5.6	1	11/21/15 05:20	
Acrylonitrile	1.5 U	10	1.5	1	11/21/15 05:20	
Benzene	0.94 I	1.0	0.21	1	11/21/15 05:20	
Bromochloromethane	0.27 U	5.0	0.27	1	11/21/15 05:20	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/21/15 05:20	
Bromoform	0.42 U	2.0	0.42	1	11/21/15 05:20	
Bromomethane	0.23 U	5.0	0.23	1	11/21/15 05:20	
Carbon Disulfide	2.4 U	10	2.4	1	11/21/15 05:20	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/21/15 05:20	
Chlorobenzene	0.16 U	1.0	0.16	1	11/21/15 05:20	
Chloroethane	0.52 U	5.0	0.52	1	11/21/15 05:20	
Chloroform	0.35 U	1.0	0.35	1	11/21/15 05:20	
Chloromethane	0.36 U	1.0	0.36	1	11/21/15 05:20	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/21/15 05:20	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/21/15 05:20	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/21/15 05:20	
Dibromomethane	0.36 U	5.0	0.36	1	11/21/15 05:20	
Ethylbenzene	0.21 U	1.0	0.21	1	11/21/15 05:20	
Iodomethane	2.7 U	5.0	2.7	1	11/21/15 05:20	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/21/15 05:20	
Methylene Chloride	0.21 U	5.0	0.21	1	11/21/15 05:20	
o-Xylene	0.14 U	1.0	0.14	1	11/21/15 05:20	
Styrene	0.29 U	1.0	0.29	1	11/21/15 05:20	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/21/15 05:20	
Toluene	1.2	1.0	0.19	1	11/21/15 05:20	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/21/15 05:20	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/21/15 05:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5A
Lab Code: J1509279-001

Service Request: J1509279
Date Collected: 11/19/15 09:00
Date Received: 11/20/15 09:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/21/15 05:20	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/21/15 05:20	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/21/15 05:20	
Vinyl Acetate	1.9 U	10	1.9	1	11/21/15 05:20	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/21/15 05:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/21/15 05:20	
4-Bromofluorobenzene	96	86 - 113	11/21/15 05:20	
Dibromofluoromethane	104	86 - 112	11/21/15 05:20	
Toluene-d8	98	88 - 115	11/21/15 05:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15 09:00
Date Received: 11/20/15 09:45

Sample Name: MW-5A
Lab Code: J1509279-001

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0199	0.00700	1	11/25/15 21:26	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	11/25/15 21:26	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	97	70 - 130	11/25/15 21:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5A
Lab Code: J1509279-001

Service Request: J1509279
Date Collected: 11/19/15 09:00
Date Received: 11/20/15 09:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 08:50	11/24/15	
Arsenic, Total	6020	1.4	ug/L	1.0	0.5	1	11/25/15 08:50	11/24/15	
Barium, Total	6020	3.6	ug/L	2.0	0.5	1	11/25/15 08:50	11/24/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 08:50	11/24/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 08:50	11/24/15	
Chromium, Total	6020	3.8	ug/L	1.0	0.2	1	11/25/15 08:50	11/24/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 08:50	11/24/15	
Copper, Total	6020	1.7	ug/L	1.0	0.3	1	11/25/15 08:50	11/24/15	
Iron, Total	6010B	600	ug/L	100	3	1	11/25/15 21:22	11/25/15	
Lead, Total	6020	1.02	ug/L	0.50	0.12	1	11/25/15 08:50	11/24/15	
Mercury, Total	7470A	0.02 I	ug/L	0.10	0.02	1	12/01/15 14:33	12/01/15	
Nickel, Total	6020	0.9 I	ug/L	2.0	0.5	1	11/25/15 08:50	11/24/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 08:50	11/24/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 08:50	11/24/15	
Sodium, Total	6010B	12.8	mg/L	0.50	0.03	1	11/25/15 21:22	11/25/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 08:50	11/24/15	
Vanadium, Total	6020	2.7	ug/L	2.0	0.3	1	11/25/15 08:50	11/24/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 08:50	11/24/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5A
Lab Code: J1509279-001

Service Request: J1509279
Date Collected: 11/19/15 09:00
Date Received: 11/20/15 09:45

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	5.10	mg/L	0.010	0.007	1	11/30/15 12:12	
Chloride	300.0	18.0	mg/L	1.0	0.2	1	11/20/15 22:31	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 22:31	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 22:31	
Solids, Total Dissolved	SM 2540 C	185	mg/L	10	10	1	11/24/15 14:44	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5B
Lab Code: J1509279-002

Service Request: J1509279
Date Collected: 11/19/15 08:30
Date Received: 11/20/15 09:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 23:14	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 23:14	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 23:14	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 23:14	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 23:14	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 23:14	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 23:14	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 23:14	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 23:14	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 23:14	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 23:14	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 23:14	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 23:14	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 23:14	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 23:14	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 23:14	
Acetone	5.6 U	50	5.6	1	11/20/15 23:14	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 23:14	
Benzene	0.21 U	1.0	0.21	1	11/20/15 23:14	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 23:14	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 23:14	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 23:14	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 23:14	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 23:14	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 23:14	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 23:14	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 23:14	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 23:14	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 23:14	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 23:14	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 23:14	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 23:14	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 23:14	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 23:14	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 23:14	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 23:14	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 23:14	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 23:14	
Styrene	0.29 U	1.0	0.29	1	11/20/15 23:14	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 23:14	
Toluene	0.98 I	1.0	0.19	1	11/20/15 23:14	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 23:14	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 23:14	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5B
Lab Code: J1509279-002

Service Request: J1509279
Date Collected: 11/19/15 08:30
Date Received: 11/20/15 09:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 23:14	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 23:14	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 23:14	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 23:14	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 23:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/20/15 23:14	
4-Bromofluorobenzene	97	86 - 113	11/20/15 23:14	
Dibromofluoromethane	102	86 - 112	11/20/15 23:14	
Toluene-d8	100	88 - 115	11/20/15 23:14	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15 08:30
Date Received: 11/20/15 09:45

Sample Name: MW-5B
Lab Code: J1509279-002

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00702 U	0.0200	0.00702	1	11/25/15 21:52	11/25/15	
1,2-Dibromoethane (EDB)	0.00702 U	0.0200	0.00702	1	11/25/15 21:52	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	97	70 - 130	11/25/15 21:52	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5B
Lab Code: J1509279-002

Service Request: J1509279
Date Collected: 11/19/15 08:30
Date Received: 11/20/15 09:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 08:56	11/24/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 08:56	11/24/15	
Barium, Total	6020	51.8	ug/L	2.0	0.5	1	11/25/15 08:56	11/24/15	
Beryllium, Total	6020	0.63	ug/L	0.50	0.04	1	11/25/15 08:56	11/24/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 08:56	11/24/15	
Chromium, Total	6020	1.2	ug/L	1.0	0.2	1	11/25/15 08:56	11/24/15	
Cobalt, Total	6020	0.6 I	ug/L	1.0	0.03	1	11/25/15 08:56	11/24/15	
Copper, Total	6020	0.4 I	ug/L	1.0	0.3	1	11/25/15 08:56	11/24/15	
Iron, Total	6010B	670	ug/L	100	3	1	11/25/15 21:27	11/25/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 08:56	11/24/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	12/01/15 14:35	12/01/15	
Nickel, Total	6020	3.3	ug/L	2.0	0.5	1	11/25/15 08:56	11/24/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 08:56	11/24/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 08:56	11/24/15	
Sodium, Total	6010B	34.4	mg/L	0.50	0.03	1	11/25/15 21:27	11/25/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 08:56	11/24/15	
Vanadium, Total	6020	2.8	ug/L	2.0	0.3	1	11/25/15 08:56	11/24/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 08:56	11/24/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-5B
Lab Code: J1509279-002

Service Request: J1509279
Date Collected: 11/19/15 08:30
Date Received: 11/20/15 09:45

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	2.45	mg/L	0.010	0.007	1	11/30/15 12:13	
Chloride	300.0	56.3	mg/L	1.0	0.2	1	11/20/15 22:48	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 22:48	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 22:48	
Solids, Total Dissolved	SM 2540 C	1740	mg/L	20	20	2	11/24/15 14:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1509279-003

Service Request: J1509279
Date Collected: 11/19/15 07:40
Date Received: 11/20/15 09:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 23:37	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 23:37	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 23:37	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 23:37	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 23:37	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 23:37	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 23:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 23:37	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 23:37	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 23:37	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 23:37	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 23:37	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 23:37	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 23:37	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 23:37	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 23:37	
Acetone	14 I	50	5.6	1	11/20/15 23:37	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 23:37	
Benzene	4.3	1.0	0.21	1	11/20/15 23:37	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 23:37	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 23:37	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 23:37	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 23:37	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 23:37	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 23:37	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 23:37	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 23:37	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 23:37	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 23:37	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 23:37	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 23:37	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 23:37	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 23:37	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 23:37	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 23:37	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 23:37	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 23:37	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 23:37	
Styrene	0.29 U	1.0	0.29	1	11/20/15 23:37	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 23:37	
Toluene	2.0	1.0	0.19	1	11/20/15 23:37	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 23:37	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 23:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1509279-003

Service Request: J1509279
Date Collected: 11/19/15 07:40
Date Received: 11/20/15 09:45
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 23:37	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 23:37	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 23:37	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 23:37	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 23:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/20/15 23:37	
4-Bromofluorobenzene	97	86 - 113	11/20/15 23:37	
Dibromofluoromethane	104	86 - 112	11/20/15 23:37	
Toluene-d8	99	88 - 115	11/20/15 23:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15 07:40
Date Received: 11/20/15 09:45

Sample Name: MW-6A
Lab Code: J1509279-003

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00707 U	0.0202	0.00707	1	11/25/15 22:19	11/25/15	
1,2-Dibromoethane (EDB)	0.00707 U	0.0202	0.00707	1	11/25/15 22:19	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	100	70 - 130	11/25/15 22:19	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1509279-003

Service Request: J1509279
Date Collected: 11/19/15 07:40
Date Received: 11/20/15 09:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 09:01	11/24/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 09:01	11/24/15	
Barium, Total	6020	6.3	ug/L	2.0	0.5	1	11/25/15 09:01	11/24/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 09:01	11/24/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 09:01	11/24/15	
Chromium, Total	6020	1.4	ug/L	1.0	0.2	1	11/25/15 09:01	11/24/15	
Cobalt, Total	6020	0.5 I	ug/L	1.0	0.03	1	11/25/15 09:01	11/24/15	
Copper, Total	6020	0.4 I	ug/L	1.0	0.3	1	11/25/15 09:01	11/24/15	
Iron, Total	6010B	18700	ug/L	100	3	1	11/25/15 21:31	11/25/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 09:01	11/24/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	12/01/15 14:36	12/01/15	
Nickel, Total	6020	0.5 I	ug/L	2.0	0.5	1	11/25/15 09:01	11/24/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 09:01	11/24/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 09:01	11/24/15	
Sodium, Total	6010B	33.8	mg/L	0.50	0.03	1	11/25/15 21:31	11/25/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 09:01	11/24/15	
Vanadium, Total	6020	4.3	ug/L	2.0	0.3	1	11/25/15 09:01	11/24/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 09:01	11/24/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6A
Lab Code: J1509279-003

Service Request: J1509279
Date Collected: 11/19/15 07:40
Date Received: 11/20/15 09:45

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	3.72	mg/L	0.010	0.007	1	11/30/15 12:14	
Chloride	300.0	64.3	mg/L	1.0	0.2	1	11/20/15 23:04	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 23:04	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 23:04	
Solids, Total Dissolved	SM 2540 C	184	mg/L	10	10	1	11/24/15 14:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1509279-004

Service Request: J1509279
Date Collected: 11/19/15 07:15
Date Received: 11/20/15 09:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/21/15 00:00	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/21/15 00:00	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/21/15 00:00	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/21/15 00:00	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/21/15 00:00	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/21/15 00:00	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/21/15 00:00	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/21/15 00:00	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/21/15 00:00	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/21/15 00:00	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/21/15 00:00	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/21/15 00:00	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/21/15 00:00	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/21/15 00:00	
2-Hexanone	2.2 U	25	2.2	1	11/21/15 00:00	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/21/15 00:00	
Acetone	5.6 U	50	5.6	1	11/21/15 00:00	
Acrylonitrile	1.5 U	10	1.5	1	11/21/15 00:00	
Benzene	0.21 U	1.0	0.21	1	11/21/15 00:00	
Bromochloromethane	0.27 U	5.0	0.27	1	11/21/15 00:00	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/21/15 00:00	
Bromoform	0.42 U	2.0	0.42	1	11/21/15 00:00	
Bromomethane	0.23 U	5.0	0.23	1	11/21/15 00:00	
Carbon Disulfide	2.4 U	10	2.4	1	11/21/15 00:00	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/21/15 00:00	
Chlorobenzene	0.16 U	1.0	0.16	1	11/21/15 00:00	
Chloroethane	0.52 U	5.0	0.52	1	11/21/15 00:00	
Chloroform	0.35 U	1.0	0.35	1	11/21/15 00:00	
Chloromethane	0.36 U	1.0	0.36	1	11/21/15 00:00	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/21/15 00:00	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/21/15 00:00	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/21/15 00:00	
Dibromomethane	0.36 U	5.0	0.36	1	11/21/15 00:00	
Ethylbenzene	0.21 U	1.0	0.21	1	11/21/15 00:00	
Iodomethane	2.7 U	5.0	2.7	1	11/21/15 00:00	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/21/15 00:00	
Methylene Chloride	0.21 U	5.0	0.21	1	11/21/15 00:00	
o-Xylene	0.14 U	1.0	0.14	1	11/21/15 00:00	
Styrene	0.29 U	1.0	0.29	1	11/21/15 00:00	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/21/15 00:00	
Toluene	1.4	1.0	0.19	1	11/21/15 00:00	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/21/15 00:00	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/21/15 00:00	

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dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1509279-004

Service Request: J1509279
Date Collected: 11/19/15 07:15
Date Received: 11/20/15 09:45

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/21/15 00:00	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/21/15 00:00	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/21/15 00:00	
Vinyl Acetate	1.9 U	10	1.9	1	11/21/15 00:00	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/21/15 00:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/21/15 00:00	
4-Bromofluorobenzene	98	86 - 113	11/21/15 00:00	
Dibromofluoromethane	104	86 - 112	11/21/15 00:00	
Toluene-d8	99	88 - 115	11/21/15 00:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15 07:15
Date Received: 11/20/15 09:45

Sample Name: MW-6B
Lab Code: J1509279-004

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00712 U	0.0203	0.00712	1	11/25/15 22:45	11/25/15	
1,2-Dibromoethane (EDB)	0.00712 U	0.0203	0.00712	1	11/25/15 22:45	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	115	70 - 130	11/25/15 22:45	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1509279-004

Service Request: J1509279
Date Collected: 11/19/15 07:15
Date Received: 11/20/15 09:45
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 09:28	11/24/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 09:28	11/24/15	
Barium, Total	6020	19.8	ug/L	2.0	0.5	1	11/25/15 09:28	11/24/15	
Beryllium, Total	6020	0.11 I	ug/L	0.50	0.04	1	11/25/15 09:28	11/24/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 09:28	11/24/15	
Chromium, Total	6020	0.8 I	ug/L	1.0	0.2	1	11/25/15 09:28	11/24/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 09:28	11/24/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 09:28	11/24/15	
Iron, Total	6010B	810	ug/L	100	3	1	11/25/15 21:36	11/25/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 09:28	11/24/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	12/01/15 14:44	12/01/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 09:28	11/24/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 09:28	11/24/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 09:28	11/24/15	
Sodium, Total	6010B	7.85	mg/L	0.50	0.03	1	11/25/15 21:36	11/25/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 09:28	11/24/15	
Vanadium, Total	6020	1.4 I	ug/L	2.0	0.3	1	11/25/15 09:28	11/24/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 09:28	11/24/15	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-6B
Lab Code: J1509279-004

Service Request: J1509279
Date Collected: 11/19/15 07:15
Date Received: 11/20/15 09:45

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.143	mg/L	0.010	0.007	1	11/30/15 12:16	
Chloride	300.0	15.1	mg/L	1.0	0.2	1	11/20/15 23:21	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 23:21	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 23:21	
Solids, Total Dissolved	SM 2540 C	45	mg/L	10	10	1	11/24/15 14:44	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15 00:00
Date Received: 11/20/15 09:45

Sample Name: Trip Blank-7
Lab Code: J1509279-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/20/15 22:29	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 22:29	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/20/15 22:29	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 22:29	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/20/15 22:29	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/20/15 22:29	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 22:29	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/20/15 22:29	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 22:29	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/20/15 22:29	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 22:29	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 22:29	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 22:29	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/20/15 22:29	
2-Hexanone	2.2 U	25	2.2	1	11/20/15 22:29	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/20/15 22:29	
Acetone	5.6 U	50	5.6	1	11/20/15 22:29	
Acrylonitrile	1.5 U	10	1.5	1	11/20/15 22:29	
Benzene	0.21 U	1.0	0.21	1	11/20/15 22:29	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 22:29	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 22:29	
Bromoform	0.42 U	2.0	0.42	1	11/20/15 22:29	
Bromomethane	0.23 U	5.0	0.23	1	11/20/15 22:29	
Carbon Disulfide	2.4 U	10	2.4	1	11/20/15 22:29	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 22:29	
Chlorobenzene	0.16 U	1.0	0.16	1	11/20/15 22:29	
Chloroethane	0.52 U	5.0	0.52	1	11/20/15 22:29	
Chloroform	0.35 U	1.0	0.35	1	11/20/15 22:29	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 22:29	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/20/15 22:29	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 22:29	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/20/15 22:29	
Dibromomethane	0.36 U	5.0	0.36	1	11/20/15 22:29	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 22:29	
Iodomethane	2.7 U	5.0	2.7	1	11/20/15 22:29	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 22:29	
Methylene Chloride	0.26 I	5.0	0.21	1	11/20/15 22:29	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 22:29	
Styrene	0.29 U	1.0	0.29	1	11/20/15 22:29	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 22:29	
Toluene	0.96 I	1.0	0.19	1	11/20/15 22:29	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/20/15 22:29	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 22:29	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15 00:00
Date Received: 11/20/15 09:45

Sample Name: Trip Blank-7
Lab Code: J1509279-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/20/15 22:29	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 22:29	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 22:29	
Vinyl Acetate	1.9 U	10	1.9	1	11/20/15 22:29	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 22:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	106	72 - 121	11/20/15 22:29	
4-Bromofluorobenzene	98	86 - 113	11/20/15 22:29	
Dibromofluoromethane	101	86 - 112	11/20/15 22:29	
Toluene-d8	101	88 - 115	11/20/15 22:29	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509117-05

Service Request: J1509279
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	5.0	0.19	1	11/20/15 22:06	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/20/15 22:06	
1,1,2,2-Tetrachloroethane	0.29 U	3.0	0.29	1	11/20/15 22:06	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/20/15 22:06	
1,1-Dichloroethane (1,1-DCA)	0.30 U	5.0	0.30	1	11/20/15 22:06	
1,1-Dichloroethene (1,1-DCE)	0.16 U	5.0	0.16	1	11/20/15 22:06	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/20/15 22:06	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	13	2.3	1	11/20/15 22:06	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/20/15 22:06	
1,2-Dichlorobenzene	0.48 U	5.0	0.48	1	11/20/15 22:06	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/20/15 22:06	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/20/15 22:06	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/20/15 22:06	
2-Butanone (MEK)	3.8 U	100	3.8	1	11/20/15 22:06	
2-Hexanone	2.2 U	50	2.2	1	11/20/15 22:06	
4-Methyl-2-pentanone (MIBK)	1.1 U	100	1.1	1	11/20/15 22:06	
Acetone	5.6 U	100	5.6	1	11/20/15 22:06	
Acrylonitrile	1.5 U	200	1.5	1	11/20/15 22:06	
Benzene	0.21 U	1.0	0.21	1	11/20/15 22:06	
Bromochloromethane	0.27 U	5.0	0.27	1	11/20/15 22:06	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/20/15 22:06	
Bromoform	0.42 U	3.0	0.42	1	11/20/15 22:06	
Bromomethane	0.23 U	10	0.23	1	11/20/15 22:06	
Carbon Disulfide	2.4 U	100	2.4	1	11/20/15 22:06	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/20/15 22:06	
Chlorobenzene	0.16 U	3.0	0.16	1	11/20/15 22:06	
Chloroethane	0.52 U	10	0.52	1	11/20/15 22:06	
Chloroform	0.35 U	5.0	0.35	1	11/20/15 22:06	
Chloromethane	0.36 U	1.0	0.36	1	11/20/15 22:06	
cis-1,2-Dichloroethene	0.36 U	5.0	0.36	1	11/20/15 22:06	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/20/15 22:06	
Dibromochloromethane	0.21 U	3.0	0.21	1	11/20/15 22:06	
Dibromomethane	0.36 U	10	0.36	1	11/20/15 22:06	
Ethylbenzene	0.21 U	1.0	0.21	1	11/20/15 22:06	
Iodomethane	2.7 U	10	2.7	1	11/20/15 22:06	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/20/15 22:06	
Methylene Chloride	0.21 U	5.0	0.21	1	11/20/15 22:06	
o-Xylene	0.14 U	1.0	0.14	1	11/20/15 22:06	
Styrene	0.29 U	1.0	0.29	1	11/20/15 22:06	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/20/15 22:06	
Toluene	0.19 U	1.0	0.19	1	11/20/15 22:06	
trans-1,2-Dichloroethene	0.19 U	5.0	0.19	1	11/20/15 22:06	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/20/15 22:06	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509117-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	100	2.2	1	11/20/15 22:06	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/20/15 22:06	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/20/15 22:06	
Vinyl Acetate	1.9 U	50	1.9	1	11/20/15 22:06	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/20/15 22:06	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/20/15 22:06	
4-Bromofluorobenzene	98	86 - 113	11/20/15 22:06	
Dibromofluoromethane	101	86 - 112	11/20/15 22:06	
Toluene-d8	99	88 - 115	11/20/15 22:06	

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dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509232-01

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	70 - 130	11/25/15 14:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509279-MB

Service Request: J1509279
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 08:40	11/24/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 08:40	11/24/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 08:40	11/24/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 08:40	11/24/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 08:40	11/24/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 08:40	11/24/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/25/15 08:40	11/24/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 08:40	11/24/15	
Iron, Total	6010B	3 U	ug/L	100	3	1	11/25/15 20:58	11/25/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 08:40	11/24/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	12/01/15 14:27	12/01/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 08:40	11/24/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 08:40	11/24/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 08:40	11/24/15	
Sodium, Total	6010B	0.07 I	mg/L	0.50	0.03	1	11/25/15 20:58	11/25/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 08:40	11/24/15	
Vanadium, Total	6020	0.4 I	ug/L	2.0	0.3	1	11/25/15 08:40	11/24/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 08:40	11/24/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509279-MB

Service Request: J1509279
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/30/15 13:39	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/20/15 18:40	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/20/15 18:40	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/20/15 18:40	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/24/15 14:44	

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-5A	J1509279-001	105	96	104
MW-5B	J1509279-002	104	97	102
MW-6A	J1509279-003	105	97	104
MW-6B	J1509279-004	104	98	104
Trip Blank-7	J1509279-005	106	98	101
Lab Control Sample	JQ1509117-03	102	97	101
Duplicate Lab Control Sample	JQ1509117-04	101	97	102
Method Blank	JQ1509117-05	104	98	101

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-5A	J1509279-001	98
MW-5B	J1509279-002	100
MW-6A	J1509279-003	99
MW-6B	J1509279-004	99
Trip Blank-7	J1509279-005	101
Lab Control Sample	JQ1509117-03	99
Duplicate Lab Control Sample	JQ1509117-04	99
Method Blank	JQ1509117-05	99

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/20/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 473284

Analyte Name	Lab Control Sample JQ1509117-03			Duplicate Lab Control Sample JQ1509117-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	50.7	50.0	101	50.7	50.0	101	77-118	<1	30
1,1,1-Trichloroethane (TCA)	53.0	50.0	106	54.1	50.0	108	70-122	2	30
1,1,2,2-Tetrachloroethane	53.0	50.0	106	53.7	50.0	107	66-135	1	30
1,1,2-Trichloroethane	52.9	50.0	106	52.6	50.0	105	75-122	<1	30
1,1-Dichloroethane (1,1-DCA)	54.5	50.0	109	55.7	50.0	111	79-117	2	30
1,1-Dichloroethene (1,1-DCE)	56.0	50.0	112	54.0	50.0	108	72-128	4	30
1,2,3-Trichloropropane	51.7	50.0	103	51.8	50.0	104	70-123	<1	30
1,2-Dibromo-3-chloropropane (DBCP)	42.3	50.0	85	43.7	50.0	87	60-122	3	30
1,2-Dibromoethane (EDB)	51.7	50.0	103	52.4	50.0	105	76-118	1	30
1,2-Dichlorobenzene	52.2	50.0	104	53.1	50.0	106	81-115	2	30
1,2-Dichloroethane	51.6	50.0	103	52.1	50.0	104	70-117	<1	30
1,2-Dichloropropane	54.0	50.0	108	54.9	50.0	110	79-117	2	30
1,4-Dichlorobenzene	52.7	50.0	105	53.9	50.0	108	82-115	2	30
2-Butanone (MEK)	49.3	50.0	99	50.4	50.0	101	62-138	2	30
2-Hexanone	51.7	50.0	103	52.6	50.0	105	74-127	2	30
4-Methyl-2-pentanone (MIBK)	50.4	50.0	101	51.1	50.0	102	77-120	1	30
Acetone	47.9	50.0	96	49.3	50.0	99	42-161	3	30
Acrylonitrile	55.6	50.0	111	57.0	50.0	114	63-132	2	30
Benzene	54.9	50.0	110	55.9	50.0	112	80-117	2	30
Bromochloromethane	54.3	50.0	109	54.0	50.0	108	78-118	<1	30
Bromodichloromethane	50.6	50.0	101	51.2	50.0	102	75-118	1	30
Bromoform	45.1	50.0	90	45.6	50.0	91	63-121	1	30
Bromomethane	35.0	50.0	70	36.5	50.0	73	31-153	4	30
Carbon Disulfide	58.5	50.0	117	56.6	50.0	113	72-128	3	30
Carbon Tetrachloride	47.7	50.0	95	49.1	50.0	98	67-124	3	30
Chlorobenzene	53.8	50.0	108	54.5	50.0	109	83-118	1	30
Chloroethane	56.6	50.0	113	56.8	50.0	114	68-132	<1	30
Chloroform	55.4	50.0	111	56.2	50.0	112	77-116	2	30
Chloromethane	49.2	50.0	98	50.0	50.0	100	60-128	2	30
cis-1,2-Dichloroethene	56.1	50.0	112	57.0	50.0	114	78-117	2	30
cis-1,3-Dichloropropene	49.4	50.0	99	49.7	50.0	99	80-119	<1	30
Dibromochloromethane	49.2	50.0	98	49.6	50.0	99	74-121	<1	30
Dibromomethane	53.0	50.0	106	52.9	50.0	106	76-117	<1	30
Ethylbenzene	54.1	50.0	108	54.2	50.0	108	82-119	<1	30
Iodomethane	15.4	50.0	31 *	16.8	50.0	34 *	51-137	8	30
m,p-Xylenes	108	100	108	110	100	110	79-122	2	30
Methylene Chloride	54.4	50.0	109	54.5	50.0	109	75-123	<1	30
o-Xylene	52.5	50.0	105	52.9	50.0	106	80-119	<1	30
Styrene	53.5	50.0	107	53.7	50.0	107	80-121	<1	30
Tetrachloroethene (PCE)	52.4	50.0	105	53.6	50.0	107	75-126	2	30
Toluene	53.5	50.0	107	54.3	50.0	109	52-152	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/20/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 473284

Lab Control Sample
JQ1509117-03

Duplicate Lab Control Sample
JQ1509117-04

Analyte Name	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,2-Dichloroethene	57.1	50.0	114	58.3	50.0	117	75-121	2	30
trans-1,3-Dichloropropene	50.2	50.0	100	50.2	50.0	100	76-118	<1	30
trans-1,4-Dichloro-2-butene	46.1	50.0	92	47.1	50.0	94	10-198	2	30
Trichloroethene (TCE)	53.5	50.0	107	54.5	50.0	109	78-122	2	30
Trichlorofluoromethane	54.7	50.0	109	56.3	50.0	113	58-134	3	30
Vinyl Acetate	48.2	50.0	96	48.6	50.0	97	36-169	<1	30
Vinyl Chloride	53.9	50.0	108	56.0	50.0	112	69-138	4	30

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-5A	J1509279-001	97
MW-5B	J1509279-002	97
MW-6A	J1509279-003	100
MW-6B	J1509279-004	115
Method Blank	JQ1509232-01	116
Lab Control Sample	JQ1509232-02	102
MW-6B	JQ1509232-03	96
MW-6B	JQ1509232-04	89

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15
Date Received: 11/20/15
Date Analyzed: 11/25/15
Date Extracted: 11/25/15

Duplicate Matrix Spike Summary

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Sample Name: MW-6B
Lab Code: J1509279-004
Analysis Method: 8011
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike JQ1509232-03			Duplicate Matrix Spike JQ1509232-04			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.210	0.250	84	0.203	0.249	81	65-135	4	20
1,2-Dibromoethane (EDB)	0.00700 U	0.227	0.250	91	0.214	0.249	86	65-135	6	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15
Date Received: 11/20/15
Date Analyzed: 11/25/15 - 12/01/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-6A
Lab Code: J1509279-003

Units: ug/L
Basis: NA

**Matrix Spike
J1509279-003MS**

**Duplicate Matrix Spike
J1509279-003DMS**

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit	
		Result	Result	Amount	% Rec	Result	Amount				% Rec
Antimony, Total	6020	0.2	51.5	50.0	103	51.8	50.0	104	75-125	<1	20
Arsenic, Total	6020	0.5	52.2	50.0	104	51.5	50.0	103	75-125	1	20
Barium, Total	6020	6.3	105	100	98	107	100	101	75-125	2	20
Beryllium, Total	6020	0.04	24.8	25.0	99	25.3	25.0	101	75-125	2	20
Cadmium, Total	6020	0.10	19.3	20.0	96	19.2	20.0	96	75-125	<1	20
Chromium, Total	6020	1.4	51.8	50.0	101	52.0	50.0	101	75-125	<1	20
Cobalt, Total	6020	0.5	50.1	50.0	99	50.4	50.0	100	75-125	<1	20
Copper, Total	6020	0.4	48.9	50.0	97	50.5	50.0	100	75-125	3	20
Lead, Total	6020	0.12	21.9	25.0	88	22.4	25.0	89	75-125	2	20
Mercury, Total	7470A	0.02	0.94	1.25	75	0.91	1.25	73 *	75-125	2	20
Nickel, Total	6020	0.5	101	100	101	100	100	100	75-125	<1	20
Selenium, Total	6020	1.1	47.1	100	47 *	43.6	100	44 *	75-125	8	20
Silver, Total	6020	0.06	25.2	25.0	101	24.4	25.0	98	75-125	3	20
Thallium, Total	6020	0.05	8.93	10.0	89	9.14	10.0	91	75-125	2	20
Vanadium, Total	6020	4.3	104	100	100	105	100	101	75-125	1	20
Zinc, Total	6020	1.6	249	250	100	248	250	99	75-125	<1	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/25/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509279-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	50.3	50.0	101	80-120
Arsenic, Total	6020	49.3	50.0	98	80-120
Barium, Total	6020	97.8	100	98	80-120
Beryllium, Total	6020	25.1	25.0	100	80-120
Cadmium, Total	6020	19.1	20.0	96	80-120
Chromium, Total	6020	49.9	50.0	100	80-120
Cobalt, Total	6020	50.4	50.0	101	80-120
Copper, Total	6020	50.4	50.0	101	80-120
Lead, Total	6020	23.2	25.0	93	80-120
Nickel, Total	6020	102	100	102	80-120
Selenium, Total	6020	99.8	100	100	80-120
Silver, Total	6020	24.8	25.0	99	80-120
Thallium, Total	6020	9.34	10.0	93	80-120
Vanadium, Total	6020	99.9	100	100	80-120
Zinc, Total	6020	247	250	99	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279

Date Analyzed: 11/25/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample

J1509279-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	5080	5000	102	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/25/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509279-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	26.0	25.0	104	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 12/01/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509279-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.33	1.25	106	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15
Date Received: 11/20/15
Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-6B
Lab Code: J1509279-004

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	PQL	MDL	Sample Result	Duplicate Sample J1509279-004DUP Result	Average	RPD	RPD Limit
Chloride	300.0	1.0	0.2	15.1	15.1	15.1	<1	20
Nitrate as Nitrogen	300.0	0.20	0.03	0.03 U	0.04 J	NC	NC	20
Nitrite as Nitrogen	300.0	0.20	0.02	0.02 U	0.02 U	NC	NC	20

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ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Collected: 11/19/15
Date Received: 11/20/15
Date Analyzed: 11/24/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-5B
Lab Code: J1509279-002

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509279-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	20	20	1740	1730	1730	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request:J1509279
Date Collected:11/19/15
Date Received:11/20/15
Date Analyzed:11/20/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-6B
Lab Code: J1509279-004

Units:mg/L
Basis:NA

Matrix Spike
J1509279-004MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	15.1	38.6	25.0	94	90-110
Nitrate as Nitrogen	300.0	0.03	5.07	5.00	101	90-110
Nitrite as Nitrogen	300.0	0.02	4.83	5.00	97	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/30/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509279-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.942	1.00	94	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509279-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	25.2	25.0	101	90-110
Nitrate as Nitrogen	300.0	5.27	5.00	105	90-110
Nitrite as Nitrogen	300.0	5.08	5.00	102	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509279
Date Analyzed: 11/24/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509279-LCS

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Solids, Total Dissolved	SM 2540 C	297	300	99	85-115

Client: Progressive Waste

Service Request #: 31509279

Project: _____

Cooler received on 11/20/15

and opened on 11/20/15 by SL

COURIER: ALS UPS FEDEX Client Other _____ Airbill # 8062 8012 5541

- 1 Were custody seals on outside of cooler? Yes No
If yes, how many and where? #: 6 on lid other
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) 0.5°
- 5 Thermometer ID 1724
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present Ice Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
Netting Vial Holder Bubble Wrap
Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were all VOA vials free of air bubbles? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:


Client approval to run samples if discrepancies noted: _____ Date: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-685-7222 x06 • FAX (904) 739-2011 PAGE 1 OF 1

SR# J1509279
CAS Contract

Project Name 3ED SWDF		Project Number		PRESERVATIVE		ANALYSIS REQUESTED (include Method Number and Container Preservative)	
Project Manager Joe Terry		Email Address		1 0 2 3 0		J1509279 Progressive Waste Services of Florida, Inc. JED SWDF	
Company/Address PWSFL		Phone #		8960		 1. H ₂ O 2. H ₂ SO ₄ 3. NaOH 4. Zn Acetate 5. MeOH 6. MeOH 7. NaHSO ₄ 8. Other _____	
1115-7 C.R. 672		FAX #		8011		REMARKS/ ALTERNATE DESCRIPTION	
Riverview, FL 33579		Sampler's Printed Name Joe Terry		ART Metals Fe, Hg, Mn N/A TDS, Cu, NO ₃ , NO ₂			
Phone # 813-943-8633		Sampler's Signature <i>Joe Terry</i>		9260			
Client Sample ID		LAB ID		NUMBER OF CONTAINERS			
MW-5A		11-19-15		9 3 3 1 1 1			
MW-5B		0830		↓ ↓ ↓ ↓ ↓			
MW-6A		0740		↓ ↓ ↓ ↓ ↓			
MW-6B		0715		9 3 3 1 1 1			
T.P. Blank-7		11-19-15		1 1			
SAMPLING DATE		SAMPLING TIME		MATRIX			
11-19-15		0900		GW			
0830		↓		↓			
0740		↓		↓			
0715		↓		↓			
11-19-15		0000		DF			
SPECIAL INSTRUCTIONS/COMMENTS		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION	
Cooler ID: 15323-3ED		RUSH (SURCHARGES APPLY)		I. Results Only		PO #	
		STANDARD		II. Results + QC Summaries (LCS, DUP, MS/MSD as required)		BILL TO:	
		REQUESTED FAX DATE		III. Results + QC and Calibration Summaries			
		REQUESTED REPORT DATE		IV. Data Validation Report with Raw Data			
				V. Specialized Forms / Custom Report			
See QAPP <input type="checkbox"/>		Edata Yes No		Relinquished by		Received by	
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 0.5°C		CUSTODY SEALS: Y N		Signature		Signature	
RELINQUISHED BY		RELINQUISHED BY		Printed Name		Printed Name	
<i>Joe Terry</i>		<i>Joe Terry</i>		Firm		Firm	
Printed Name Joe Terry		Printed Name		Date/Time		Date/Time	
Firm PWSFL		Firm		11-19-15/1000		0945	
Date/Time		Date/Time					



December 09, 2015

Service Request No:J1509208

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: JED SWDF

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 18, 2015
For your reference, these analyses have been assigned our service request number **J1509208**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-7A Lab ID: J1509208-001

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	41.5		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	5.71		0.007	0.010	mg/L	350.1
Iron, Total	13900		3	100	ug/L	6010B
Sodium, Total	18.2		0.03	0.50	mg/L	6010B
Arsenic, Total	1.3		0.5	1.0	ug/L	6020
Barium, Total	17.4		0.5	2.0	ug/L	6020
Cobalt, Total	1.9		0.03	1.0	ug/L	6020
Chromium, Total	1.7		0.2	1.0	ug/L	6020
Nickel, Total	0.7	I	0.5	2.0	ug/L	6020
Vanadium, Total	2.3		0.3	2.0	ug/L	6020
Toluene	0.95	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	128		10	10	mg/L	SM 2540 C

CLIENT ID: MW-7B Lab ID: J1509208-002

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	37.3		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	2.46		0.007	0.010	mg/L	350.1
Iron, Total	37600		3	100	ug/L	6010B
Sodium, Total	40.7		0.03	0.50	mg/L	6010B
Arsenic, Total	0.6	I	0.5	1.0	ug/L	6020
Barium, Total	38.4		0.5	2.0	ug/L	6020
Beryllium, Total	1.51		0.04	0.50	ug/L	6020
Cobalt, Total	7.3		0.03	1.0	ug/L	6020
Chromium, Total	1.2		0.2	1.0	ug/L	6020
Copper, Total	0.3	I	0.3	1.0	ug/L	6020
Nickel, Total	5.4		0.5	2.0	ug/L	6020
Lead, Total	0.21	I	0.12	0.50	ug/L	6020
Thallium, Total	0.09	I	0.05	0.20	ug/L	6020
Vanadium, Total	3.9		0.3	2.0	ug/L	6020
Zinc, Total	5.7		1.6	5.0	ug/L	6020
Toluene	0.75	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	814		10	10	mg/L	SM 2540 C

CLIENT ID: MW-8A Lab ID: J1509208-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	9.9		0.2	1.0	mg/L	300.0
Nitrate as Nitrogen	0.1	I	0.03	0.20	mg/L	300.0
Ammonia as Nitrogen	6.36		0.007	0.010	mg/L	350.1
Iron, Total	23000		3	100	ug/L	6010B
Sodium, Total	9.92		0.03	0.50	mg/L	6010B
Barium, Total	46.6		0.5	2.0	ug/L	6020
Beryllium, Total	0.34	I	0.04	0.50	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-8A		Lab ID: J1509208-003				
Analyte	Results	Flag	MDL	PQL	Units	Method
Cobalt, Total	5.3		0.03	1.0	ug/L	6020
Chromium, Total	2.0		0.2	1.0	ug/L	6020
Copper, Total	0.5	I	0.3	1.0	ug/L	6020
Nickel, Total	12.2		0.5	2.0	ug/L	6020
Lead, Total	0.16	I	0.12	0.50	ug/L	6020
Vanadium, Total	4.2		0.3	2.0	ug/L	6020
Zinc, Total	3.1	I	1.6	5.0	ug/L	6020
1,4-Dichlorobenzene	0.99	I	0.16	1.0	ug/L	8260B
Acetone	6.8	I	5.6	50	ug/L	8260B
Benzene	4.9		0.21	1.0	ug/L	8260B
Tetrachloroethene (PCE)	0.30	I	0.22	1.0	ug/L	8260B
Toluene	0.70	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	1490		20	20	mg/L	SM 2540 C

CLIENT ID: MW-8B		Lab ID: J1509208-004				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	48.3		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.513		0.007	0.010	mg/L	350.1
Iron, Total	38600		3	100	ug/L	6010B
Sodium, Total	39.6		0.03	0.50	mg/L	6010B
Barium, Total	83.3		0.5	2.0	ug/L	6020
Beryllium, Total	0.56		0.04	0.50	ug/L	6020
Cobalt, Total	7.4		0.03	1.0	ug/L	6020
Chromium, Total	0.7	I	0.2	1.0	ug/L	6020
Copper, Total	0.3	I	0.3	1.0	ug/L	6020
Nickel, Total	3.9		0.5	2.0	ug/L	6020
Thallium, Total	0.06	I	0.05	0.20	ug/L	6020
Vanadium, Total	4.1		0.3	2.0	ug/L	6020
Zinc, Total	5.7		1.6	5.0	ug/L	6020
Tetrachloroethene (PCE)	0.28	I	0.22	1.0	ug/L	8260B
Toluene	0.95	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	825		10	10	mg/L	SM 2540 C

CLIENT ID: MW-9A		Lab ID: J1509208-005				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	16.0		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	3.65		0.007	0.010	mg/L	350.1
Iron, Total	740		3	100	ug/L	6010B
Sodium, Total	38.6		0.03	0.50	mg/L	6010B
Arsenic, Total	2.2		0.5	1.0	ug/L	6020
Barium, Total	4.3		0.5	2.0	ug/L	6020
Cobalt, Total	0.3	I	0.03	1.0	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-9A Lab ID: J1509208-005

Analyte	Results	Flag	MDL	PQL	Units	Method
Chromium, Total	3.1		0.2	1.0	ug/L	6020
Copper, Total	1.3		0.3	1.0	ug/L	6020
Nickel, Total	1.0	I	0.5	2.0	ug/L	6020
Lead, Total	0.42	I	0.12	0.50	ug/L	6020
Vanadium, Total	3.1		0.3	2.0	ug/L	6020
Mercury, Total	0.04	I	0.02	0.10	ug/L	7470A
1,2-Dichloroethane	0.22	I	0.22	1.0	ug/L	8260B
1,2-Dichloropropane	0.52	I	0.19	1.0	ug/L	8260B
1,4-Dichlorobenzene	3.9		0.16	1.0	ug/L	8260B
Acetone	130		5.6	50	ug/L	8260B
Benzene	12		0.21	1.0	ug/L	8260B
Chlorobenzene	0.61	I	0.16	1.0	ug/L	8260B
cis-1,2-Dichloroethene	0.41	I	0.36	1.0	ug/L	8260B
m,p-Xylenes	0.34	I	0.31	2.0	ug/L	8260B
o-Xylene	0.29	I	0.14	1.0	ug/L	8260B
Toluene	0.81	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	228		10	10	mg/L	SM 2540 C

CLIENT ID: MW-9B Lab ID: J1509208-006

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	43.5		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	1.26		0.007	0.010	mg/L	350.1
Iron, Total	20400		3	100	ug/L	6010B
Sodium, Total	25.8		0.03	0.50	mg/L	6010B
Barium, Total	28.4		0.5	2.0	ug/L	6020
Beryllium, Total	1.18		0.04	0.50	ug/L	6020
Cobalt, Total	6.7		0.03	1.0	ug/L	6020
Chromium, Total	1.6		0.2	1.0	ug/L	6020
Nickel, Total	2.5		0.5	2.0	ug/L	6020
Thallium, Total	0.07	I	0.05	0.20	ug/L	6020
Vanadium, Total	3.7		0.3	2.0	ug/L	6020
Zinc, Total	4.2	I	1.6	5.0	ug/L	6020
Tetrachloroethene (PCE)	0.25	I	0.22	1.0	ug/L	8260B
Toluene	1.5		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	571		10	10	mg/L	SM 2540 C

CLIENT ID: MW-10A Lab ID: J1509208-007

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	30.8		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	3.54		0.007	0.010	mg/L	350.1
Iron, Total	860		3	100	ug/L	6010B
Sodium, Total	26.3		0.03	0.50	mg/L	6010B



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10A **Lab ID: J1509208-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Arsenic, Total	1.7		0.5	1.0	ug/L	6020
Barium, Total	10.5		0.5	2.0	ug/L	6020
Cobalt, Total	0.1	I	0.03	1.0	ug/L	6020
Chromium, Total	1.0		0.2	1.0	ug/L	6020
Copper, Total	0.4	I	0.3	1.0	ug/L	6020
Lead, Total	0.13	I	0.12	0.50	ug/L	6020
Vanadium, Total	1.9	I	0.3	2.0	ug/L	6020
Zinc, Total	4.2	I	1.6	5.0	ug/L	6020
1,2-Dichloroethane	0.28	I	0.22	1.0	ug/L	8260B
1,2-Dichloropropane	0.27	I	0.19	1.0	ug/L	8260B
Acetone	11	I	5.6	50	ug/L	8260B
Benzene	4.4		0.21	1.0	ug/L	8260B
cis-1,2-Dichloroethene	0.38	I	0.36	1.0	ug/L	8260B
m,p-Xylenes	0.31	I	0.31	2.0	ug/L	8260B
o-Xylene	1.1		0.14	1.0	ug/L	8260B
Toluene	1.3		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	198		10	10	mg/L	SM 2540 C

CLIENT ID: MW-10B **Lab ID: J1509208-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	24.6		0.2	1.0	mg/L	300.0
Nitrate as Nitrogen	0.1	I	0.03	0.20	mg/L	300.0
Ammonia as Nitrogen	4.88		0.007	0.010	mg/L	350.1
Iron, Total	15900		3	100	ug/L	6010B
Sodium, Total	36.0		0.03	0.50	mg/L	6010B
Arsenic, Total	0.8	I	0.5	1.0	ug/L	6020
Barium, Total	33.5		0.5	2.0	ug/L	6020
Beryllium, Total	1.64		0.04	0.50	ug/L	6020
Cobalt, Total	11.0		0.03	1.0	ug/L	6020
Chromium, Total	0.7	I	0.2	1.0	ug/L	6020
Nickel, Total	2.8		0.5	2.0	ug/L	6020
Thallium, Total	0.06	I	0.05	0.20	ug/L	6020
Vanadium, Total	2.2		0.3	2.0	ug/L	6020
Zinc, Total	2.8	I	1.6	5.0	ug/L	6020
Benzene	0.88	I	0.21	1.0	ug/L	8260B
Toluene	0.95	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	786		10	10	mg/L	SM 2540 C

CLIENT ID: MW-11A **Lab ID: J1509208-009**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	9.9		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	2.53		0.007	0.010	mg/L	350.1



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-11A		Lab ID: J1509208-009				
Analyte	Results	Flag	MDL	PQL	Units	Method
Iron, Total	4120		3	100	ug/L	6010B
Sodium, Total	13.1		0.03	0.50	mg/L	6010B
Arsenic, Total	1.4		0.5	1.0	ug/L	6020
Barium, Total	55.4		0.5	2.0	ug/L	6020
Beryllium, Total	0.22	I	0.04	0.50	ug/L	6020
Cobalt, Total	1.0		0.03	1.0	ug/L	6020
Chromium, Total	1.7		0.2	1.0	ug/L	6020
Nickel, Total	2.6		0.5	2.0	ug/L	6020
Vanadium, Total	3.2		0.3	2.0	ug/L	6020
1,2-Dichloroethane	0.24	I	0.22	1.0	ug/L	8260B
1,2-Dichloropropane	0.55	I	0.19	1.0	ug/L	8260B
1,4-Dichlorobenzene	3.5		0.16	1.0	ug/L	8260B
Acetone	33	I	5.6	50	ug/L	8260B
Benzene	6.6		0.21	1.0	ug/L	8260B
Chlorobenzene	0.51	I	0.16	1.0	ug/L	8260B
m,p-Xylenes	0.33	I	0.31	2.0	ug/L	8260B
o-Xylene	0.33	I	0.14	1.0	ug/L	8260B
Toluene	0.94	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	251		10	10	mg/L	SM 2540 C

CLIENT ID: MW-11B		Lab ID: J1509208-010				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	11.7		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.039		0.007	0.010	mg/L	350.1
Iron, Total	370		3	100	ug/L	6010B
Sodium, Total	13.1		0.03	0.50	mg/L	6010B
Arsenic, Total	1.6		0.5	1.0	ug/L	6020
Barium, Total	17.2		0.5	2.0	ug/L	6020
Beryllium, Total	0.05	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.06	I	0.03	1.0	ug/L	6020
Chromium, Total	1.7		0.2	1.0	ug/L	6020
Lead, Total	1.08		0.12	0.50	ug/L	6020
Vanadium, Total	2.9		0.3	2.0	ug/L	6020
Tetrachloroethene (PCE)	0.25	I	0.22	1.0	ug/L	8260B
Toluene	1.8		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	60		10	10	mg/L	SM 2540 C

CLIENT ID: Trip Blank		Lab ID: J1509208-011				
Analyte	Results	Flag	MDL	PQL	Units	Method
Methylene Chloride	0.49	I	0.21	5.0	ug/L	8260B
Toluene	0.68	I	0.19	1.0	ug/L	8260B



Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request:J1509208
Date Received:11/18/15

CASE NARRATIVE

ALS Environmental

Client: Progressive Waste Solutions of FL, Inc. Service Request No.: J1509208

Project: JED SWDF Date Received: 11/18/15

Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Eleven water samples were received for analysis at ALS Environmental on 11/18/15. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses: Spike recovery in the LCS and LCSD is outside method control limits for Iodomethane. The analyte was not detected in the associated field samples. Nelac Marginal Exceedence rule was met.

Semi-Volatile Organic Analyses: None

Metals Analyses: None

General Chemistry Analyses: None

Approved by  Date 12/9/2015

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF

Service Request:J1509208

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509208-001	MW-7A	11/17/2015	1400
J1509208-002	MW-7B	11/17/2015	1345
J1509208-003	MW-8A	11/17/2015	1250
J1509208-004	MW-8B	11/17/2015	1230
J1509208-005	MW-9A	11/17/2015	1135
J1509208-006	MW-9B	11/17/2015	1115
J1509208-007	MW-10A	11/17/2015	0955
J1509208-008	MW-10B	11/17/2015	0940
J1509208-009	MW-11A	11/17/2015	0825
J1509208-010	MW-11B	11/17/2015	0805
J1509208-011	Trip Blank	11/17/2015	0000

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7A
Lab Code: J1509208-001

Service Request: J1509208
Date Collected: 11/17/15 14:00
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 13:59	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 13:59	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 13:59	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 13:59	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 13:59	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 13:59	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 13:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 13:59	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 13:59	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 13:59	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/19/15 13:59	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/19/15 13:59	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 13:59	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 13:59	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 13:59	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 13:59	
Acetone	5.6 U	50	5.6	1	11/19/15 13:59	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 13:59	
Benzene	0.21 U	1.0	0.21	1	11/19/15 13:59	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 13:59	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 13:59	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 13:59	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 13:59	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 13:59	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 13:59	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 13:59	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 13:59	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 13:59	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 13:59	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 13:59	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 13:59	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 13:59	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 13:59	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 13:59	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 13:59	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/19/15 13:59	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 13:59	
o-Xylene	0.14 U	1.0	0.14	1	11/19/15 13:59	
Styrene	0.29 U	1.0	0.29	1	11/19/15 13:59	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 13:59	
Toluene	0.95 I	1.0	0.19	1	11/19/15 13:59	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 13:59	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 13:59	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 14:00
Date Received: 11/18/15 10:15

Sample Name: MW-7A
Lab Code: J1509208-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 13:59	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 13:59	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 13:59	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 13:59	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 13:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/19/15 13:59	
4-Bromofluorobenzene	99	86 - 113	11/19/15 13:59	
Dibromofluoromethane	105	86 - 112	11/19/15 13:59	
Toluene-d8	97	88 - 115	11/19/15 13:59	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 14:00
Date Received: 11/18/15 10:15

Sample Name: MW-7A
Lab Code: J1509208-001

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0197	0.00700	1	11/25/15 00:36	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0197	0.00700	1	11/25/15 00:36	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	101	70 - 130	11/25/15 00:36	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7A
Lab Code: J1509208-001

Service Request: J1509208
Date Collected: 11/17/15 14:00
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 05:37	11/23/15	
Arsenic, Total	6020	1.3	ug/L	1.0	0.5	1	11/24/15 05:37	11/23/15	
Barium, Total	6020	17.4	ug/L	2.0	0.5	1	11/24/15 05:37	11/23/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/24/15 05:37	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 05:37	11/23/15	
Chromium, Total	6020	1.7	ug/L	1.0	0.2	1	11/24/15 05:37	11/23/15	
Cobalt, Total	6020	1.9	ug/L	1.0	0.03	1	11/24/15 05:37	11/23/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 05:37	11/23/15	
Iron, Total	6010B	13900	ug/L	100	3	1	11/20/15 22:19	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 05:37	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:15	11/25/15	
Nickel, Total	6020	0.7 I	ug/L	2.0	0.5	1	11/24/15 05:37	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 05:37	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 22:30	11/23/15	
Sodium, Total	6010B	18.2	mg/L	0.50	0.03	1	11/20/15 22:19	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 05:37	11/23/15	
Vanadium, Total	6020	2.3	ug/L	2.0	0.3	1	11/24/15 05:37	11/23/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 05:37	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7A
Lab Code: J1509208-001

Service Request: J1509208
Date Collected: 11/17/15 14:00
Date Received: 11/18/15 10:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	5.71	mg/L	0.010	0.007	1	11/20/15 12:06	
Chloride	300.0	41.5	mg/L	1.0	0.2	1	11/18/15 21:14	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/18/15 21:14	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 21:14	
Solids, Total Dissolved	SM 2540 C	128	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1509208-002

Service Request: J1509208
Date Collected: 11/17/15 13:45
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 14:21	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 14:21	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 14:21	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 14:21	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 14:21	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 14:21	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 14:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 14:21	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 14:21	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 14:21	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/19/15 14:21	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/19/15 14:21	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 14:21	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 14:21	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 14:21	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 14:21	
Acetone	5.6 U	50	5.6	1	11/19/15 14:21	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 14:21	
Benzene	0.21 U	1.0	0.21	1	11/19/15 14:21	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 14:21	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 14:21	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 14:21	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 14:21	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 14:21	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 14:21	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 14:21	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 14:21	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 14:21	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 14:21	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 14:21	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 14:21	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 14:21	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 14:21	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 14:21	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 14:21	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/19/15 14:21	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 14:21	
o-Xylene	0.14 U	1.0	0.14	1	11/19/15 14:21	
Styrene	0.29 U	1.0	0.29	1	11/19/15 14:21	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 14:21	
Toluene	0.75 I	1.0	0.19	1	11/19/15 14:21	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 14:21	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 14:21	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1509208-002

Service Request: J1509208
Date Collected: 11/17/15 13:45
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 14:21	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 14:21	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 14:21	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 14:21	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 14:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/19/15 14:21	
4-Bromofluorobenzene	98	86 - 113	11/19/15 14:21	
Dibromofluoromethane	103	86 - 112	11/19/15 14:21	
Toluene-d8	99	88 - 115	11/19/15 14:21	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 13:45
Date Received: 11/18/15 10:15

Sample Name: MW-7B
Lab Code: J1509208-002

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00704 U	0.0201	0.00704	1	11/25/15 01:02	11/23/15	
1,2-Dibromoethane (EDB)	0.00704 U	0.0201	0.00704	1	11/25/15 01:02	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	100	70 - 130	11/25/15 01:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1509208-002

Service Request: J1509208
Date Collected: 11/17/15 13:45
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 05:42	11/23/15	
Arsenic, Total	6020	0.6 I	ug/L	1.0	0.5	1	11/24/15 05:42	11/23/15	
Barium, Total	6020	38.4	ug/L	2.0	0.5	1	11/24/15 05:42	11/23/15	
Beryllium, Total	6020	1.51	ug/L	0.50	0.04	1	11/24/15 05:42	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 05:42	11/23/15	
Chromium, Total	6020	1.2	ug/L	1.0	0.2	1	11/24/15 05:42	11/23/15	
Cobalt, Total	6020	7.3	ug/L	1.0	0.03	1	11/24/15 05:42	11/23/15	
Copper, Total	6020	0.3 I	ug/L	1.0	0.3	1	11/24/15 05:42	11/23/15	
Iron, Total	6010B	37600	ug/L	100	3	1	11/20/15 22:23	11/19/15	
Lead, Total	6020	0.21 I	ug/L	0.50	0.12	1	11/24/15 05:42	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:17	11/25/15	
Nickel, Total	6020	5.4	ug/L	2.0	0.5	1	11/24/15 05:42	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 05:42	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 22:36	11/23/15	
Sodium, Total	6010B	40.7	mg/L	0.50	0.03	1	11/20/15 22:23	11/19/15	
Thallium, Total	6020	0.09 I	ug/L	0.20	0.05	1	11/24/15 05:42	11/23/15	
Vanadium, Total	6020	3.9	ug/L	2.0	0.3	1	11/24/15 05:42	11/23/15	
Zinc, Total	6020	5.7	ug/L	5.0	1.6	1	11/24/15 05:42	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-7B
Lab Code: J1509208-002

Service Request: J1509208
Date Collected: 11/17/15 13:45
Date Received: 11/18/15 10:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	2.46	mg/L	0.010	0.007	1	11/20/15 12:07	
Chloride	300.0	37.3	mg/L	1.0	0.2	1	11/18/15 22:04	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/18/15 22:04	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 22:04	
Solids, Total Dissolved	SM 2540 C	814	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 12:50
Date Received: 11/18/15 10:15

Sample Name: MW-8A
Lab Code: J1509208-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 23:21	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 23:21	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 23:21	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 23:21	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 23:21	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 23:21	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 23:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 23:21	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 23:21	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 23:21	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 23:21	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 23:21	
1,4-Dichlorobenzene	0.99 I	1.0	0.16	1	11/18/15 23:21	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 23:21	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 23:21	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 23:21	
Acetone	6.8 I	50	5.6	1	11/18/15 23:21	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 23:21	
Benzene	4.9	1.0	0.21	1	11/18/15 23:21	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 23:21	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 23:21	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 23:21	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 23:21	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 23:21	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 23:21	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 23:21	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 23:21	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 23:21	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 23:21	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 23:21	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 23:21	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 23:21	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 23:21	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 23:21	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 23:21	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 23:21	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 23:21	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 23:21	
Styrene	0.29 U	1.0	0.29	1	11/18/15 23:21	
Tetrachloroethene (PCE)	0.30 I	1.0	0.22	1	11/18/15 23:21	
Toluene	0.70 I	1.0	0.19	1	11/18/15 23:21	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 23:21	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 23:21	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 12:50
Date Received: 11/18/15 10:15

Sample Name: MW-8A
Lab Code: J1509208-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 23:21	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 23:21	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 23:21	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 23:21	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 23:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/18/15 23:21	
4-Bromofluorobenzene	98	86 - 113	11/18/15 23:21	
Dibromofluoromethane	100	86 - 112	11/18/15 23:21	
Toluene-d8	98	88 - 115	11/18/15 23:21	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 12:50
Date Received: 11/18/15 10:15

Sample Name: MW-8A
Lab Code: J1509208-003

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0197	0.00700	1	11/25/15 01:28	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0197	0.00700	1	11/25/15 01:28	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	102	70 - 130	11/25/15 01:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8A
Lab Code: J1509208-003

Service Request: J1509208
Date Collected: 11/17/15 12:50
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 05:48	11/23/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/24/15 05:48	11/23/15	
Barium, Total	6020	46.6	ug/L	2.0	0.5	1	11/24/15 05:48	11/23/15	
Beryllium, Total	6020	0.34 I	ug/L	0.50	0.04	1	11/24/15 05:48	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 05:48	11/23/15	
Chromium, Total	6020	2.0	ug/L	1.0	0.2	1	11/24/15 05:48	11/23/15	
Cobalt, Total	6020	5.3	ug/L	1.0	0.03	1	11/24/15 05:48	11/23/15	
Copper, Total	6020	0.5 I	ug/L	1.0	0.3	1	11/24/15 05:48	11/23/15	
Iron, Total	6010B	23000	ug/L	100	3	1	11/20/15 22:28	11/19/15	
Lead, Total	6020	0.16 I	ug/L	0.50	0.12	1	11/24/15 05:48	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:18	11/25/15	
Nickel, Total	6020	12.2	ug/L	2.0	0.5	1	11/24/15 05:48	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 05:48	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 22:41	11/23/15	
Sodium, Total	6010B	9.92	mg/L	0.50	0.03	1	11/20/15 22:28	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 05:48	11/23/15	
Vanadium, Total	6020	4.2	ug/L	2.0	0.3	1	11/24/15 05:48	11/23/15	
Zinc, Total	6020	3.1 I	ug/L	5.0	1.6	1	11/24/15 05:48	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8A
Lab Code: J1509208-003

Service Request: J1509208
Date Collected: 11/17/15 12:50
Date Received: 11/18/15 10:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	6.36	mg/L	0.010	0.007	1	11/20/15 12:08	
Chloride	300.0	9.9	mg/L	1.0	0.2	1	11/18/15 22:21	
Nitrate as Nitrogen	300.0	0.1 I	mg/L	0.20	0.03	1	11/18/15 22:21	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 22:21	
Solids, Total Dissolved	SM 2540 C	1490	mg/L	20	20	2	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1509208-004

Service Request: J1509208
Date Collected: 11/17/15 12:30
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 23:44	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 23:44	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 23:44	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 23:44	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 23:44	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 23:44	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 23:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 23:44	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 23:44	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 23:44	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 23:44	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 23:44	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 23:44	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 23:44	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 23:44	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 23:44	
Acetone	5.6 U	50	5.6	1	11/18/15 23:44	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 23:44	
Benzene	0.21 U	1.0	0.21	1	11/18/15 23:44	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 23:44	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 23:44	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 23:44	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 23:44	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 23:44	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 23:44	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 23:44	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 23:44	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 23:44	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 23:44	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 23:44	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 23:44	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 23:44	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 23:44	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 23:44	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 23:44	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 23:44	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 23:44	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 23:44	
Styrene	0.29 U	1.0	0.29	1	11/18/15 23:44	
Tetrachloroethene (PCE)	0.28 I	1.0	0.22	1	11/18/15 23:44	
Toluene	0.95 I	1.0	0.19	1	11/18/15 23:44	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 23:44	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 23:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1509208-004

Service Request: J1509208
Date Collected: 11/17/15 12:30
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 23:44	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 23:44	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 23:44	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 23:44	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 23:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/18/15 23:44	
4-Bromofluorobenzene	100	86 - 113	11/18/15 23:44	
Dibromofluoromethane	101	86 - 112	11/18/15 23:44	
Toluene-d8	99	88 - 115	11/18/15 23:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 12:30
Date Received: 11/18/15 10:15

Sample Name: MW-8B
Lab Code: J1509208-004

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0198	0.00700	1	11/25/15 01:54	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0198	0.00700	1	11/25/15 01:54	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	107	70 - 130	11/25/15 01:54	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1509208-004

Service Request: J1509208
Date Collected: 11/17/15 12:30
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 05:53	11/23/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/24/15 05:53	11/23/15	
Barium, Total	6020	83.3	ug/L	2.0	0.5	1	11/24/15 05:53	11/23/15	
Beryllium, Total	6020	0.56	ug/L	0.50	0.04	1	11/24/15 05:53	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 05:53	11/23/15	
Chromium, Total	6020	0.7 I	ug/L	1.0	0.2	1	11/24/15 05:53	11/23/15	
Cobalt, Total	6020	7.4	ug/L	1.0	0.03	1	11/24/15 05:53	11/23/15	
Copper, Total	6020	0.3 I	ug/L	1.0	0.3	1	11/24/15 05:53	11/23/15	
Iron, Total	6010B	38600	ug/L	100	3	1	11/20/15 22:33	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 05:53	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:19	11/25/15	
Nickel, Total	6020	3.9	ug/L	2.0	0.5	1	11/24/15 05:53	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 05:53	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:03	11/23/15	
Sodium, Total	6010B	39.6	mg/L	0.50	0.03	1	11/20/15 22:33	11/19/15	
Thallium, Total	6020	0.06 I	ug/L	0.20	0.05	1	11/24/15 05:53	11/23/15	
Vanadium, Total	6020	4.1	ug/L	2.0	0.3	1	11/24/15 05:53	11/23/15	
Zinc, Total	6020	5.7	ug/L	5.0	1.6	1	11/24/15 05:53	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-8B
Lab Code: J1509208-004

Service Request: J1509208
Date Collected: 11/17/15 12:30
Date Received: 11/18/15 10:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.513	mg/L	0.010	0.007	1	11/20/15 12:09	
Chloride	300.0	48.3	mg/L	1.0	0.2	1	11/18/15 23:10	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/18/15 23:10	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 23:10	
Solids, Total Dissolved	SM 2540 C	825	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1509208-005

Service Request: J1509208
Date Collected: 11/17/15 11:35
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 02:01	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 02:01	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 02:01	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 02:01	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 02:01	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 02:01	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 02:01	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 02:01	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 02:01	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 02:01	
1,2-Dichloroethane	0.22 I	1.0	0.22	1	11/19/15 02:01	
1,2-Dichloropropane	0.52 I	1.0	0.19	1	11/19/15 02:01	
1,4-Dichlorobenzene	3.9	1.0	0.16	1	11/19/15 02:01	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 02:01	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 02:01	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 02:01	
Acetone	130	50	5.6	1	11/19/15 02:01	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 02:01	
Benzene	12	1.0	0.21	1	11/19/15 02:01	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 02:01	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 02:01	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 02:01	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 02:01	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 02:01	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 02:01	
Chlorobenzene	0.61 I	1.0	0.16	1	11/19/15 02:01	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 02:01	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 02:01	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 02:01	
cis-1,2-Dichloroethene	0.41 I	1.0	0.36	1	11/19/15 02:01	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 02:01	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 02:01	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 02:01	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 02:01	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 02:01	*
m,p-Xylenes	0.34 I	2.0	0.31	1	11/19/15 02:01	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 02:01	
o-Xylene	0.29 I	1.0	0.14	1	11/19/15 02:01	
Styrene	0.29 U	1.0	0.29	1	11/19/15 02:01	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 02:01	
Toluene	0.81 I	1.0	0.19	1	11/19/15 02:01	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 02:01	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 02:01	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 11:35
Date Received: 11/18/15 10:15

Sample Name: MW-9A
Lab Code: J1509208-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 02:01	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 02:01	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 02:01	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 02:01	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 02:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/19/15 02:01	
4-Bromofluorobenzene	99	86 - 113	11/19/15 02:01	
Dibromofluoromethane	102	86 - 112	11/19/15 02:01	
Toluene-d8	99	88 - 115	11/19/15 02:01	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 11:35
Date Received: 11/18/15 10:15

Sample Name: MW-9A
Lab Code: J1509208-005

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00704 U	0.0201	0.00704	1	11/25/15 02:20	11/23/15	
1,2-Dibromoethane (EDB)	0.00704 U	0.0201	0.00704	1	11/25/15 02:20	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	70 - 130	11/25/15 02:20	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1509208-005

Service Request: J1509208
Date Collected: 11/17/15 11:35
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 05:58	11/23/15	
Arsenic, Total	6020	2.2	ug/L	1.0	0.5	1	11/24/15 05:58	11/23/15	
Barium, Total	6020	4.3	ug/L	2.0	0.5	1	11/24/15 05:58	11/23/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/24/15 05:58	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 05:58	11/23/15	
Chromium, Total	6020	3.1	ug/L	1.0	0.2	1	11/24/15 05:58	11/23/15	
Cobalt, Total	6020	0.3 I	ug/L	1.0	0.03	1	11/24/15 05:58	11/23/15	
Copper, Total	6020	1.3	ug/L	1.0	0.3	1	11/24/15 05:58	11/23/15	
Iron, Total	6010B	740	ug/L	100	3	1	11/20/15 22:37	11/19/15	
Lead, Total	6020	0.42 I	ug/L	0.50	0.12	1	11/24/15 05:58	11/23/15	
Mercury, Total	7470A	0.04 I	ug/L	0.10	0.02	1	11/30/15 12:21	11/25/15	
Nickel, Total	6020	1.0 I	ug/L	2.0	0.5	1	11/24/15 05:58	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 05:58	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:08	11/23/15	
Sodium, Total	6010B	38.6	mg/L	0.50	0.03	1	11/20/15 22:37	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 05:58	11/23/15	
Vanadium, Total	6020	3.1	ug/L	2.0	0.3	1	11/24/15 05:58	11/23/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 05:58	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9A
Lab Code: J1509208-005

Service Request: J1509208
Date Collected: 11/17/15 11:35
Date Received: 11/18/15 10:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	3.65	mg/L	0.010	0.007	1	11/20/15 12:10	
Chloride	300.0	16.0	mg/L	1.0	0.2	1	11/18/15 23:27	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/18/15 23:27	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 23:27	
Solids, Total Dissolved	SM 2540 C	228	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1509208-006

Service Request: J1509208
Date Collected: 11/17/15 11:15
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 00:07	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 00:07	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 00:07	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 00:07	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 00:07	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 00:07	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 00:07	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 00:07	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 00:07	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 00:07	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/19/15 00:07	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/19/15 00:07	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 00:07	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 00:07	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 00:07	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 00:07	
Acetone	5.6 U	50	5.6	1	11/19/15 00:07	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 00:07	
Benzene	0.21 U	1.0	0.21	1	11/19/15 00:07	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 00:07	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 00:07	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 00:07	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 00:07	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 00:07	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 00:07	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 00:07	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 00:07	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 00:07	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 00:07	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 00:07	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 00:07	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 00:07	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 00:07	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 00:07	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 00:07	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/19/15 00:07	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 00:07	
o-Xylene	0.14 U	1.0	0.14	1	11/19/15 00:07	
Styrene	0.29 U	1.0	0.29	1	11/19/15 00:07	
Tetrachloroethene (PCE)	0.25 I	1.0	0.22	1	11/19/15 00:07	
Toluene	1.5	1.0	0.19	1	11/19/15 00:07	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 00:07	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 00:07	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1509208-006

Service Request: J1509208
Date Collected: 11/17/15 11:15
Date Received: 11/18/15 10:15
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 00:07	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 00:07	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 00:07	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 00:07	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 00:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/19/15 00:07	
4-Bromofluorobenzene	100	86 - 113	11/19/15 00:07	
Dibromofluoromethane	101	86 - 112	11/19/15 00:07	
Toluene-d8	100	88 - 115	11/19/15 00:07	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 11:15
Date Received: 11/18/15 10:15

Sample Name: MW-9B
Lab Code: J1509208-006

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00712 U	0.0203	0.00712	1	11/25/15 03:12	11/23/15	
1,2-Dibromoethane (EDB)	0.00712 U	0.0203	0.00712	1	11/25/15 03:12	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	109	70 - 130	11/25/15 03:12	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1509208-006

Service Request: J1509208
Date Collected: 11/17/15 11:15
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 06:04	11/23/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/24/15 06:04	11/23/15	
Barium, Total	6020	28.4	ug/L	2.0	0.5	1	11/24/15 06:04	11/23/15	
Beryllium, Total	6020	1.18	ug/L	0.50	0.04	1	11/24/15 06:04	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 06:04	11/23/15	
Chromium, Total	6020	1.6	ug/L	1.0	0.2	1	11/24/15 06:04	11/23/15	
Cobalt, Total	6020	6.7	ug/L	1.0	0.03	1	11/24/15 06:04	11/23/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 06:04	11/23/15	
Iron, Total	6010B	20400	ug/L	100	3	1	11/20/15 22:42	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 06:04	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:22	11/25/15	
Nickel, Total	6020	2.5	ug/L	2.0	0.5	1	11/24/15 06:04	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 06:04	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:13	11/23/15	
Sodium, Total	6010B	25.8	mg/L	0.50	0.03	1	11/20/15 22:42	11/19/15	
Thallium, Total	6020	0.07 I	ug/L	0.20	0.05	1	11/24/15 06:04	11/23/15	
Vanadium, Total	6020	3.7	ug/L	2.0	0.3	1	11/24/15 06:04	11/23/15	
Zinc, Total	6020	4.2 I	ug/L	5.0	1.6	1	11/24/15 06:04	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-9B
Lab Code: J1509208-006

Service Request: J1509208
Date Collected: 11/17/15 11:15
Date Received: 11/18/15 10:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	1.26	mg/L	0.010	0.007	1	11/20/15 12:13	
Chloride	300.0	43.5	mg/L	1.0	0.2	1	11/18/15 23:43	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/18/15 23:43	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 23:43	
Solids, Total Dissolved	SM 2540 C	571	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1509208-007

Service Request: J1509208
Date Collected: 11/17/15 09:55
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 01:15	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 01:15	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 01:15	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 01:15	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 01:15	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 01:15	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 01:15	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 01:15	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 01:15	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 01:15	
1,2-Dichloroethane	0.28 I	1.0	0.22	1	11/19/15 01:15	
1,2-Dichloropropane	0.27 I	1.0	0.19	1	11/19/15 01:15	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 01:15	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 01:15	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 01:15	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 01:15	
Acetone	11 I	50	5.6	1	11/19/15 01:15	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 01:15	
Benzene	4.4	1.0	0.21	1	11/19/15 01:15	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 01:15	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 01:15	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 01:15	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 01:15	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 01:15	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 01:15	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 01:15	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 01:15	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 01:15	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 01:15	
cis-1,2-Dichloroethene	0.38 I	1.0	0.36	1	11/19/15 01:15	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 01:15	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 01:15	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 01:15	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 01:15	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 01:15	*
m,p-Xylenes	0.31 I	2.0	0.31	1	11/19/15 01:15	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 01:15	
o-Xylene	1.1	1.0	0.14	1	11/19/15 01:15	
Styrene	0.29 U	1.0	0.29	1	11/19/15 01:15	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 01:15	
Toluene	1.3	1.0	0.19	1	11/19/15 01:15	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 01:15	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 01:15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 09:55
Date Received: 11/18/15 10:15

Sample Name: MW-10A
Lab Code: J1509208-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 01:15	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 01:15	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 01:15	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 01:15	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 01:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/19/15 01:15	
4-Bromofluorobenzene	101	86 - 113	11/19/15 01:15	
Dibromofluoromethane	101	86 - 112	11/19/15 01:15	
Toluene-d8	99	88 - 115	11/19/15 01:15	

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dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 09:55
Date Received: 11/18/15 10:15

Sample Name: MW-10A
Lab Code: J1509208-007

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00702 U	0.0200	0.00702	1	11/25/15 03:38	11/23/15	
1,2-Dibromoethane (EDB)	0.00702 U	0.0200	0.00702	1	11/25/15 03:38	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	103	70 - 130	11/25/15 03:38	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1509208-007

Service Request: J1509208
Date Collected: 11/17/15 09:55
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 06:09	11/23/15	
Arsenic, Total	6020	1.7	ug/L	1.0	0.5	1	11/24/15 06:09	11/23/15	
Barium, Total	6020	10.5	ug/L	2.0	0.5	1	11/24/15 06:09	11/23/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/24/15 06:09	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 06:09	11/23/15	
Chromium, Total	6020	1.0	ug/L	1.0	0.2	1	11/24/15 06:09	11/23/15	
Cobalt, Total	6020	0.1 I	ug/L	1.0	0.03	1	11/24/15 06:09	11/23/15	
Copper, Total	6020	0.4 I	ug/L	1.0	0.3	1	11/24/15 06:09	11/23/15	
Iron, Total	6010B	860	ug/L	100	3	1	11/20/15 22:47	11/19/15	
Lead, Total	6020	0.13 I	ug/L	0.50	0.12	1	11/24/15 06:09	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:24	11/25/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/24/15 06:09	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 06:09	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:19	11/23/15	
Sodium, Total	6010B	26.3	mg/L	0.50	0.03	1	11/20/15 22:47	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 06:09	11/23/15	
Vanadium, Total	6020	1.9 I	ug/L	2.0	0.3	1	11/24/15 06:09	11/23/15	
Zinc, Total	6020	4.2 I	ug/L	5.0	1.6	1	11/24/15 06:09	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10A
Lab Code: J1509208-007

Service Request: J1509208
Date Collected: 11/17/15 09:55
Date Received: 11/18/15 10:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	3.54	mg/L	0.010	0.007	1	11/20/15 12:15	
Chloride	300.0	30.8	mg/L	1.0	0.2	1	11/19/15 00:00	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 00:00	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 00:00	
Solids, Total Dissolved	SM 2540 C	198	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1509208-008

Service Request: J1509208
Date Collected: 11/17/15 09:40
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 01:38	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 01:38	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 01:38	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 01:38	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 01:38	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 01:38	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 01:38	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 01:38	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 01:38	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 01:38	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/19/15 01:38	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/19/15 01:38	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 01:38	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 01:38	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 01:38	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 01:38	
Acetone	5.6 U	50	5.6	1	11/19/15 01:38	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 01:38	
Benzene	0.88 I	1.0	0.21	1	11/19/15 01:38	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 01:38	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 01:38	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 01:38	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 01:38	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 01:38	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 01:38	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 01:38	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 01:38	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 01:38	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 01:38	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 01:38	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 01:38	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 01:38	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 01:38	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 01:38	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 01:38	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/19/15 01:38	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 01:38	
o-Xylene	0.14 U	1.0	0.14	1	11/19/15 01:38	
Styrene	0.29 U	1.0	0.29	1	11/19/15 01:38	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 01:38	
Toluene	0.95 I	1.0	0.19	1	11/19/15 01:38	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 01:38	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 01:38	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 09:40
Date Received: 11/18/15 10:15

Sample Name: MW-10B
Lab Code: J1509208-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 01:38	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 01:38	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 01:38	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 01:38	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 01:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/19/15 01:38	
4-Bromofluorobenzene	100	86 - 113	11/19/15 01:38	
Dibromofluoromethane	101	86 - 112	11/19/15 01:38	
Toluene-d8	98	88 - 115	11/19/15 01:38	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 09:40
Date Received: 11/18/15 10:15

Sample Name: MW-10B
Lab Code: J1509208-008

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 04:04	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 04:04	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	117	70 - 130	11/25/15 04:04	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1509208-008

Service Request: J1509208
Date Collected: 11/17/15 09:40
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 06:25	11/23/15	
Arsenic, Total	6020	0.8 I	ug/L	1.0	0.5	1	11/24/15 06:25	11/23/15	
Barium, Total	6020	33.5	ug/L	2.0	0.5	1	11/24/15 06:25	11/23/15	
Beryllium, Total	6020	1.64	ug/L	0.50	0.04	1	11/24/15 06:25	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 06:25	11/23/15	
Chromium, Total	6020	0.7 I	ug/L	1.0	0.2	1	11/24/15 06:25	11/23/15	
Cobalt, Total	6020	11.0	ug/L	1.0	0.03	1	11/24/15 06:25	11/23/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 06:25	11/23/15	
Iron, Total	6010B	15900	ug/L	100	3	1	11/20/15 22:51	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 06:25	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:25	11/25/15	
Nickel, Total	6020	2.8	ug/L	2.0	0.5	1	11/24/15 06:25	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 06:25	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:24	11/23/15	
Sodium, Total	6010B	36.0	mg/L	0.50	0.03	1	11/20/15 22:51	11/19/15	
Thallium, Total	6020	0.06 I	ug/L	0.20	0.05	1	11/24/15 06:25	11/23/15	
Vanadium, Total	6020	2.2	ug/L	2.0	0.3	1	11/24/15 06:25	11/23/15	
Zinc, Total	6020	2.8 I	ug/L	5.0	1.6	1	11/24/15 06:25	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-10B
Lab Code: J1509208-008

Service Request: J1509208
Date Collected: 11/17/15 09:40
Date Received: 11/18/15 10:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	4.88	mg/L	0.010	0.007	1	11/20/15 12:21	
Chloride	300.0	24.6	mg/L	1.0	0.2	1	11/19/15 00:16	
Nitrate as Nitrogen	300.0	0.1 I	mg/L	0.20	0.03	1	11/19/15 00:16	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 00:16	
Solids, Total Dissolved	SM 2540 C	786	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 08:25
Date Received: 11/18/15 10:15

Sample Name: MW-11A
Lab Code: J1509208-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 00:30	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 00:30	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 00:30	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 00:30	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 00:30	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 00:30	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 00:30	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 00:30	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 00:30	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 00:30	
1,2-Dichloroethane	0.24 I	1.0	0.22	1	11/19/15 00:30	
1,2-Dichloropropane	0.55 I	1.0	0.19	1	11/19/15 00:30	
1,4-Dichlorobenzene	3.5	1.0	0.16	1	11/19/15 00:30	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 00:30	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 00:30	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 00:30	
Acetone	33 I	50	5.6	1	11/19/15 00:30	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 00:30	
Benzene	6.6	1.0	0.21	1	11/19/15 00:30	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 00:30	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 00:30	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 00:30	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 00:30	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 00:30	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 00:30	
Chlorobenzene	0.51 I	1.0	0.16	1	11/19/15 00:30	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 00:30	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 00:30	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 00:30	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 00:30	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 00:30	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 00:30	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 00:30	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 00:30	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 00:30	*
m,p-Xylenes	0.33 I	2.0	0.31	1	11/19/15 00:30	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 00:30	
o-Xylene	0.33 I	1.0	0.14	1	11/19/15 00:30	
Styrene	0.29 U	1.0	0.29	1	11/19/15 00:30	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 00:30	
Toluene	0.94 I	1.0	0.19	1	11/19/15 00:30	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 00:30	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 00:30	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 08:25
Date Received: 11/18/15 10:15

Sample Name: MW-11A
Lab Code: J1509208-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 00:30	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 00:30	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 00:30	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 00:30	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 00:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/19/15 00:30	
4-Bromofluorobenzene	101	86 - 113	11/19/15 00:30	
Dibromofluoromethane	100	86 - 112	11/19/15 00:30	
Toluene-d8	98	88 - 115	11/19/15 00:30	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 08:25
Date Received: 11/18/15 10:15

Sample Name: MW-11A
Lab Code: J1509208-009

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0199	0.00700	1	11/25/15 04:30	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	11/25/15 04:30	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	113	70 - 130	11/25/15 04:30	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11A
Lab Code: J1509208-009

Service Request: J1509208
Date Collected: 11/17/15 08:25
Date Received: 11/18/15 10:15

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 06:30	11/23/15	
Arsenic, Total	6020	1.4	ug/L	1.0	0.5	1	11/24/15 06:30	11/23/15	
Barium, Total	6020	55.4	ug/L	2.0	0.5	1	11/24/15 06:30	11/23/15	
Beryllium, Total	6020	0.22 I	ug/L	0.50	0.04	1	11/24/15 06:30	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 06:30	11/23/15	
Chromium, Total	6020	1.7	ug/L	1.0	0.2	1	11/24/15 06:30	11/23/15	
Cobalt, Total	6020	1.0	ug/L	1.0	0.03	1	11/24/15 06:30	11/23/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 06:30	11/23/15	
Iron, Total	6010B	4120	ug/L	100	3	1	11/20/15 22:56	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 06:30	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:30	11/25/15	
Nickel, Total	6020	2.6	ug/L	2.0	0.5	1	11/24/15 06:30	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 06:30	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:30	11/23/15	
Sodium, Total	6010B	13.1	mg/L	0.50	0.03	1	11/20/15 22:56	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 06:30	11/23/15	
Vanadium, Total	6020	3.2	ug/L	2.0	0.3	1	11/24/15 06:30	11/23/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 06:30	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11A
Lab Code: J1509208-009

Service Request: J1509208
Date Collected: 11/17/15 08:25
Date Received: 11/18/15 10:15
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	2.53	mg/L	0.010	0.007	1	11/20/15 12:22	
Chloride	300.0	9.9	mg/L	1.0	0.2	1	11/19/15 00:33	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 00:33	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 00:33	
Solids, Total Dissolved	SM 2540 C	251	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1509208-010

Service Request: J1509208
Date Collected: 11/17/15 08:05
Date Received: 11/18/15 10:15

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 00:53	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 00:53	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 00:53	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 00:53	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 00:53	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 00:53	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 00:53	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 00:53	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 00:53	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 00:53	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/19/15 00:53	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/19/15 00:53	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 00:53	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 00:53	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 00:53	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 00:53	
Acetone	5.6 U	50	5.6	1	11/19/15 00:53	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 00:53	
Benzene	0.21 U	1.0	0.21	1	11/19/15 00:53	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 00:53	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 00:53	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 00:53	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 00:53	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 00:53	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 00:53	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 00:53	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 00:53	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 00:53	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 00:53	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 00:53	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 00:53	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 00:53	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 00:53	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 00:53	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 00:53	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/19/15 00:53	
Methylene Chloride	0.21 U	5.0	0.21	1	11/19/15 00:53	
o-Xylene	0.14 U	1.0	0.14	1	11/19/15 00:53	
Styrene	0.29 U	1.0	0.29	1	11/19/15 00:53	
Tetrachloroethene (PCE)	0.25 I	1.0	0.22	1	11/19/15 00:53	
Toluene	1.8	1.0	0.19	1	11/19/15 00:53	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 00:53	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 00:53	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 08:05
Date Received: 11/18/15 10:15

Sample Name: MW-11B
Lab Code: J1509208-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 00:53	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 00:53	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 00:53	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 00:53	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 00:53	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	72 - 121	11/19/15 00:53	
4-Bromofluorobenzene	100	86 - 113	11/19/15 00:53	
Dibromofluoromethane	102	86 - 112	11/19/15 00:53	
Toluene-d8	99	88 - 115	11/19/15 00:53	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 08:05
Date Received: 11/18/15 10:15

Sample Name: MW-11B
Lab Code: J1509208-010

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00703 U	0.0201	0.00703	1	11/25/15 14:55	11/25/15	
1,2-Dibromoethane (EDB)	0.00703 U	0.0201	0.00703	1	11/25/15 14:55	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	96	70 - 130	11/25/15 14:55	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1509208-010

Service Request: J1509208
Date Collected: 11/17/15 08:05
Date Received: 11/18/15 10:15
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 06:36	11/23/15	
Arsenic, Total	6020	1.6	ug/L	1.0	0.5	1	11/24/15 06:36	11/23/15	
Barium, Total	6020	17.2	ug/L	2.0	0.5	1	11/24/15 06:36	11/23/15	
Beryllium, Total	6020	0.05 I	ug/L	0.50	0.04	1	11/24/15 06:36	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 06:36	11/23/15	
Chromium, Total	6020	1.7	ug/L	1.0	0.2	1	11/24/15 06:36	11/23/15	
Cobalt, Total	6020	0.06 I	ug/L	1.0	0.03	1	11/24/15 06:36	11/23/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 06:36	11/23/15	
Iron, Total	6010B	370	ug/L	100	3	1	11/20/15 23:02	11/19/15	
Lead, Total	6020	1.08	ug/L	0.50	0.12	1	11/24/15 06:36	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:31	11/25/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/24/15 06:36	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 06:36	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 23:35	11/23/15	
Sodium, Total	6010B	13.1	mg/L	0.50	0.03	1	11/20/15 23:01	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 06:36	11/23/15	
Vanadium, Total	6020	2.9	ug/L	2.0	0.3	1	11/24/15 06:36	11/23/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 06:36	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-11B
Lab Code: J1509208-010

Service Request: J1509208
Date Collected: 11/17/15 08:05
Date Received: 11/18/15 10:15

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.039	mg/L	0.010	0.007	1	11/20/15 12:25	
Chloride	300.0	11.7	mg/L	1.0	0.2	1	11/19/15 00:49	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/19/15 00:49	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/19/15 00:49	
Solids, Total Dissolved	SM 2540 C	60	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 00:00
Date Received: 11/18/15 10:15

Sample Name: Trip Blank
Lab Code: J1509208-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/19/15 13:19	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/19/15 13:19	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/19/15 13:19	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/19/15 13:19	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/19/15 13:19	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/19/15 13:19	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/19/15 13:19	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/19/15 13:19	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/19/15 13:19	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/19/15 13:19	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/19/15 13:19	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/19/15 13:19	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/19/15 13:19	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/19/15 13:19	
2-Hexanone	2.2 U	25	2.2	1	11/19/15 13:19	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/19/15 13:19	
Acetone	5.6 U	50	5.6	1	11/19/15 13:19	
Acrylonitrile	1.5 U	10	1.5	1	11/19/15 13:19	
Benzene	0.21 U	1.0	0.21	1	11/19/15 13:19	
Bromochloromethane	0.27 U	5.0	0.27	1	11/19/15 13:19	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/19/15 13:19	
Bromoform	0.42 U	2.0	0.42	1	11/19/15 13:19	
Bromomethane	0.23 U	5.0	0.23	1	11/19/15 13:19	
Carbon Disulfide	2.4 U	10	2.4	1	11/19/15 13:19	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/19/15 13:19	
Chlorobenzene	0.16 U	1.0	0.16	1	11/19/15 13:19	
Chloroethane	0.52 U	5.0	0.52	1	11/19/15 13:19	
Chloroform	0.35 U	1.0	0.35	1	11/19/15 13:19	
Chloromethane	0.36 U	1.0	0.36	1	11/19/15 13:19	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/19/15 13:19	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/19/15 13:19	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/19/15 13:19	
Dibromomethane	0.36 U	5.0	0.36	1	11/19/15 13:19	
Ethylbenzene	0.21 U	1.0	0.21	1	11/19/15 13:19	
Iodomethane	2.7 U	5.0	2.7	1	11/19/15 13:19	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/19/15 13:19	
Methylene Chloride	0.49 I	5.0	0.21	1	11/19/15 13:19	
o-Xylene	0.14 U	1.0	0.14	1	11/19/15 13:19	
Styrene	0.29 U	1.0	0.29	1	11/19/15 13:19	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/19/15 13:19	
Toluene	0.68 I	1.0	0.19	1	11/19/15 13:19	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/19/15 13:19	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/19/15 13:19	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15 00:00
Date Received: 11/18/15 10:15

Sample Name: Trip Blank
Lab Code: J1509208-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/19/15 13:19	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/19/15 13:19	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/19/15 13:19	
Vinyl Acetate	1.9 U	10	1.9	1	11/19/15 13:19	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/19/15 13:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/19/15 13:19	
4-Bromofluorobenzene	100	86 - 113	11/19/15 13:19	
Dibromofluoromethane	100	86 - 112	11/19/15 13:19	
Toluene-d8	99	88 - 115	11/19/15 13:19	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509021-05

Service Request: J1509208
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 17:29	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 17:29	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 17:29	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 17:29	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 17:29	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 17:29	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 17:29	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 17:29	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 17:29	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 17:29	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 17:29	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 17:29	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 17:29	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 17:29	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 17:29	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 17:29	
Acetone	5.6 U	50	5.6	1	11/18/15 17:29	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 17:29	
Benzene	0.21 U	1.0	0.21	1	11/18/15 17:29	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 17:29	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 17:29	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 17:29	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 17:29	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 17:29	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 17:29	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 17:29	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 17:29	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 17:29	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 17:29	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 17:29	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 17:29	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 17:29	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 17:29	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 17:29	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 17:29	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 17:29	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 17:29	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 17:29	
Styrene	0.29 U	1.0	0.29	1	11/18/15 17:29	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 17:29	
Toluene	0.19 U	1.0	0.19	1	11/18/15 17:29	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 17:29	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 17:29	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509021-05

Service Request: J1509208
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 17:29	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 17:29	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 17:29	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 17:29	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 17:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	72 - 121	11/18/15 17:29	
4-Bromofluorobenzene	101	86 - 113	11/18/15 17:29	
Dibromofluoromethane	98	86 - 112	11/18/15 17:29	
Toluene-d8	98	88 - 115	11/18/15 17:29	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509141-01

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/24/15 17:40	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/24/15 17:40	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	120	70 - 130	11/24/15 17:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509232-01

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/25/15 14:02	11/25/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	70 - 130	11/25/15 14:02	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509208-MB

Service Request: J1509208
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 04:16	11/23/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/24/15 04:16	11/23/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/24/15 04:16	11/23/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/24/15 04:16	11/23/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/24/15 04:16	11/23/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/24/15 04:16	11/23/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/24/15 04:16	11/23/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/24/15 04:16	11/23/15	
Iron, Total	6010B	3 I	ug/L	100	3	1	11/20/15 20:39	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/24/15 04:16	11/23/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/30/15 12:12	11/25/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/24/15 04:16	11/23/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/24/15 04:16	11/23/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/24/15 04:16	11/23/15	
Sodium, Total	6010B	0.03 U	mg/L	0.50	0.03	1	11/20/15 20:39	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/24/15 04:16	11/23/15	
Vanadium, Total	6020	0.3 U	ug/L	2.0	0.3	1	11/24/15 04:16	11/23/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/24/15 04:16	11/23/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509208-MB1

Service Request: J1509208
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 11:33	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/18/15 19:52	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/18/15 19:52	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/18/15 19:52	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509208-MB2

Service Request: J1509208
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 13:48	

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-7A	J1509208-001	105	99	105
MW-7B	J1509208-002	104	98	103
MW-8A	J1509208-003	102	98	100
MW-8B	J1509208-004	102	100	101
MW-9A	J1509208-005	102	99	102
MW-9B	J1509208-006	102	100	101
MW-10A	J1509208-007	102	101	101
MW-10B	J1509208-008	102	100	101
MW-11A	J1509208-009	102	101	100
MW-11B	J1509208-010	101	100	102
Trip Blank	J1509208-011	104	100	100
Lab Control Sample	JQ1509021-03	99	99	100
Duplicate Lab Control Sample	JQ1509021-04	99	100	100
Method Blank	JQ1509021-05	101	101	98

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-7A	J1509208-001	97
MW-7B	J1509208-002	99
MW-8A	J1509208-003	98
MW-8B	J1509208-004	99
MW-9A	J1509208-005	99
MW-9B	J1509208-006	100
MW-10A	J1509208-007	99
MW-10B	J1509208-008	98
MW-11A	J1509208-009	98
MW-11B	J1509208-010	99
Trip Blank	J1509208-011	99
Lab Control Sample	JQ1509021-03	99
Duplicate Lab Control Sample	JQ1509021-04	99
Method Blank	JQ1509021-05	98

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/18/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 472818

Analyte Name	Lab Control Sample JQ1509021-03			Duplicate Lab Control Sample JQ1509021-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	49.6	50.0	99	48.8	50.0	98	77-118	2	30
1,1,1-Trichloroethane (TCA)	51.6	50.0	103	51.0	50.0	102	70-122	1	30
1,1,2,2-Tetrachloroethane	53.0	50.0	106	52.8	50.0	106	66-135	<1	30
1,1,2-Trichloroethane	53.7	50.0	107	52.8	50.0	106	75-122	2	30
1,1-Dichloroethane (1,1-DCA)	55.3	50.0	111	54.5	50.0	109	79-117	1	30
1,1-Dichloroethene (1,1-DCE)	54.6	50.0	109	53.3	50.0	107	72-128	2	30
1,2,3-Trichloropropane	51.3	50.0	102	50.6	50.0	101	70-123	1	30
1,2-Dibromo-3-chloropropane (DBCP)	44.2	50.0	88	44.4	50.0	89	60-122	<1	30
1,2-Dibromoethane (EDB)	51.6	50.0	103	51.3	50.0	103	76-118	<1	30
1,2-Dichlorobenzene	52.3	50.0	105	51.6	50.0	103	81-115	1	30
1,2-Dichloroethane	51.2	50.0	102	50.8	50.0	102	70-117	<1	30
1,2-Dichloropropane	55.3	50.0	111	55.0	50.0	110	79-117	<1	30
1,4-Dichlorobenzene	52.4	50.0	105	51.7	50.0	103	82-115	1	30
2-Butanone (MEK)	52.1	50.0	104	52.7	50.0	105	62-138	<1	30
2-Hexanone	55.5	50.0	111	55.7	50.0	111	74-127	<1	30
4-Methyl-2-pentanone (MIBK)	54.1	50.0	108	54.1	50.0	108	77-120	<1	30
Acetone	54.3	50.0	109	54.6	50.0	109	42-161	<1	30
Acrylonitrile	55.8	50.0	112	56.1	50.0	112	63-132	<1	30
Benzene	55.0	50.0	110	54.6	50.0	109	80-117	<1	30
Bromochloromethane	52.2	50.0	104	52.4	50.0	105	78-118	<1	30
Bromodichloromethane	50.0	50.0	100	49.5	50.0	99	75-118	1	30
Bromoform	43.5	50.0	87	43.6	50.0	87	63-121	<1	30
Bromomethane	32.3	50.0	65	33.1	50.0	66	31-153	2	30
Carbon Disulfide	54.1	50.0	108	53.4	50.0	107	72-128	1	30
Carbon Tetrachloride	46.0	50.0	92	46.1	50.0	92	67-124	<1	30
Chlorobenzene	53.6	50.0	107	52.5	50.0	105	83-118	2	30
Chloroethane	55.6	50.0	111	53.5	50.0	107	68-132	4	30
Chloroform	54.0	50.0	108	53.2	50.0	106	77-116	1	30
Chloromethane	45.5	50.0	91	45.5	50.0	91	60-128	<1	30
cis-1,2-Dichloroethene	56.2	50.0	112	54.9	50.0	110	78-117	2	30
cis-1,3-Dichloropropene	48.6	50.0	97	47.6	50.0	95	80-119	2	30
Dibromochloromethane	48.2	50.0	96	48.0	50.0	96	74-121	<1	30
Dibromomethane	51.9	50.0	104	51.1	50.0	102	76-117	2	30
Ethylbenzene	52.8	50.0	106	52.2	50.0	104	82-119	1	30
Iodomethane	16.3	50.0	33 *	16.9	50.0	34 *	51-137	4	30
m,p-Xylenes	106	100	106	105	100	105	79-122	1	30
Methylene Chloride	54.3	50.0	109	53.7	50.0	107	75-123	1	30
o-Xylene	51.6	50.0	103	51.2	50.0	102	80-119	<1	30
Styrene	52.5	50.0	105	51.7	50.0	103	80-121	1	30
Tetrachloroethene (PCE)	50.0	50.0	100	49.0	50.0	98	75-126	2	30
Toluene	53.1	50.0	106	52.3	50.0	105	52-152	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/18/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 472818

Lab Control Sample
JQ1509021-03

Duplicate Lab Control Sample
JQ1509021-04

Analyte Name	Lab Control Sample JQ1509021-03			Duplicate Lab Control Sample JQ1509021-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,2-Dichloroethene	56.5	50.0	113	56.0	50.0	112	75-121	<1	30
trans-1,3-Dichloropropene	47.6	50.0	95	47.1	50.0	94	76-118	1	30
trans-1,4-Dichloro-2-butene	42.5	50.0	85	43.0	50.0	86	10-198	1	30
Trichloroethene (TCE)	52.2	50.0	104	51.4	50.0	103	78-122	2	30
Trichlorofluoromethane	50.9	50.0	102	50.6	50.0	101	58-134	<1	30
Vinyl Acetate	49.2	50.0	98	48.8	50.0	98	36-169	<1	30
Vinyl Chloride	50.8	50.0	102	50.8	50.0	102	69-138	<1	30

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-7A	J1509208-001	101
MW-7B	J1509208-002	100
MW-8A	J1509208-003	102
MW-8B	J1509208-004	107
MW-9A	J1509208-005	116
MW-9B	J1509208-006	109
MW-10A	J1509208-007	103
MW-10B	J1509208-008	117
MW-11A	J1509208-009	113
MW-11B	J1509208-010	96
Method Blank	JQ1509141-01	120
Lab Control Sample	JQ1509141-02	109
Method Blank	JQ1509232-01	116
Lab Control Sample	JQ1509232-02	102

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/24/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509208-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	53.3	50.0	107	80-120
Arsenic, Total	6020	50.8	50.0	102	80-120
Barium, Total	6020	101	100	101	80-120
Beryllium, Total	6020	23.9	25.0	96	80-120
Cadmium, Total	6020	20.2	20.0	101	80-120
Chromium, Total	6020	51.4	50.0	103	80-120
Cobalt, Total	6020	51.1	50.0	102	80-120
Copper, Total	6020	50.5	50.0	101	80-120
Lead, Total	6020	24.6	25.0	99	80-120
Nickel, Total	6020	102	100	102	80-120
Selenium, Total	6020	101	100	101	80-120
Silver, Total	6020	25.8	25.0	103	80-120
Thallium, Total	6020	10.2	10.0	102	80-120
Vanadium, Total	6020	101	100	100	80-120
Zinc, Total	6020	252	250	101	80-120

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dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/20/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509208-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	4970	5000	99	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/20/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509208-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	24.9	25.0	100	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/30/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509208-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.28	1.25	102	80-120

ALS Group USA, Corp.

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15
Date Received: 11/18/15
Date Analyzed: 11/18/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-7A
Lab Code: J1509208-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	PQL	MDL	Sample Result	Duplicate Sample J1509208-001DUP Result	Average	RPD	RPD Limit
Chloride	300.0	1.0	0.2	41.5	41.3	41.4	<1	20
Nitrate as Nitrogen	300.0	0.20	0.03	0.03 U	0.03 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15
Date Received: 11/18/15
Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-9A
Lab Code: J1509208-005

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509208-005DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	350.1	0.010	0.007	3.65	3.56	3.61	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15
Date Received: 11/18/15
Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11B
Lab Code: J1509208-010

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509208-010DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	350.1	0.010	0.007	0.039	0.038	0.0385	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15
Date Received: 11/18/15
Date Analyzed: 11/19/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-8A
Lab Code: J1509208-003

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509208-003DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	20	20	1490	1500	1500	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request:J1509208
Date Collected:11/17/15
Date Received:11/18/15
Date Analyzed:11/18/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-7A
Lab Code: J1509208-001

Units:mg/L
Basis:NA

Matrix Spike
J1509208-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	41.5	63.3	25.0	87 *	90-110
Nitrate as Nitrogen	300.0	0.03	5.01	5.00	100	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15
Date Received: 11/18/15
Date Analyzed: 11/20/15

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-9A
Lab Code: J1509208-005
Analysis Method: 350.1

Units: mg/L
Basis: NA

Matrix Spike
J1509208-005MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	3.65	4.66	1.00	101	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Collected: 11/17/15
Date Received: 11/18/15
Date Analyzed: 11/20/15

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-11B
Lab Code: J1509208-010
Analysis Method: 350.1

Units: mg/L
Basis: NA

Matrix Spike
J1509208-010MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.039	0.809	1.00	77 *	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509208-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.949	1.00	95	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/18/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509208-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	24.6	25.0	98	90-110
Nitrate as Nitrogen	300.0	5.14	5.00	103	90-110
Nitrite as Nitrogen	300.0	4.98	5.00	100	90-110

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208

Date Analyzed: 11/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

J1509208-LCS1

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Solids, Total Dissolved	SM 2540 C	293	300	98	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509208
Date Analyzed: 11/20/15

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: 350.1

Units: mg/L
Basis: NA
Analysis Lot: 473110

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1509208-LCS2	0.947	1.00	95	90-110

Cooler Receipt Form

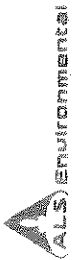
Client: PWSFL Service Request #: J1509208
 Project: JED SWDF
 Cooler received on 11/18/15 and opened on 11/18/15 by MGW
 COURIER: ALS UPS FEDEX Client Other _____ Airbill # 7817 3396 3378

- 1 Were custody seals on outside of cooler? Yes No
 If yes, how many and where? #: ___ on lid other
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) 4.5
- 5 Thermometer ID T124
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present? Ice Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
 Netting Vial Holder Bubble Wrap
 Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
 HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were all VOA vials free of air bubbles? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 • FAX (904) 739-2011 PAGE 1 OF 1

SR#

1509208

CAS Contract

5

J1509208

Progressive Waste Services of Florida, Inc.

JED DWDF



- ANALYSIS REQUESTED (Include Method Number and Co)
- 9. NONE
 - 1. HCL
 - 2. HNO₃
 - 3. H₂SO₄
 - 4. NaOH
 - 5. Zn Acetate
 - 6. MeOH
 - 7. NaHSO₄
 - 8. Other _____

REMARKS/
ALTERNATE DESCRIPTION

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	ANALYSIS REQUESTED (Include Method Number and Co)	REQUIREMENTS	INVOICE INFORMATION
MW-7A		11-17-15	1400	GW	9	3			
MW-7B			1345						
MW-8A			1250						
MW-8B			1230						
MW-9A			1135						
MW-9B			1115						
MW-10A			0955						
MW-10B			0940						
MW-11A			0825						
MW-11B			0805						
Top Blank-4		11-17-15	0000	DF	1	1			

Cooler ID: 15321-360

See OAPP

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 45°

RELINQUISHED BY	RECEIVED BY	CUSTODY SEALS: Y N
Signature: Joe Terry	Signature: Michael Winkler	
Printed Name: Joe Terry	Printed Name: Michael Winkler	
Firm: PWSFL	Firm: ALS	
Date/Time: 11-17-15/1600	Date/Time: 11-18-15/1615	

TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION
<input checked="" type="checkbox"/> STANDARD	<input checked="" type="checkbox"/> I. Results Only	PO #
REQUESTED FAX DATE	<input type="checkbox"/> II. Results + QC Summaries (LOS, DUP, MS/MSD as required)	BILL TO:
REQUESTED REPORT DATE	<input type="checkbox"/> III. Results + QC and Calibration Summaries	
	<input type="checkbox"/> IV. Data Validation Report with Raw Data	
	<input type="checkbox"/> V. Specialized Forms / Custom Report	
	Edata: <input type="checkbox"/> Yes <input type="checkbox"/> No	
RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature
Printed Name	Printed Name	Printed Name
Firm	Firm	Firm
Date/Time	Date/Time	Date/Time



December 09, 2015

Service Request No:J1509157

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 17, 2015
For your reference, these analyses have been assigned our service request number **J1509157**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-12A		Lab ID: J1509157-001				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	28.5		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.457		0.007	0.010	mg/L	350.1
Iron, Total	2180		3	100	ug/L	6010B
Sodium, Total	15.8		0.03	0.50	mg/L	6010B
Arsenic, Total	1.4		0.5	1.0	ug/L	6020
Barium, Total	22.2		0.5	2.0	ug/L	6020
Beryllium, Total	0.12	I	0.04	0.50	ug/L	6020
Cobalt, Total	1.3		0.03	1.0	ug/L	6020
Chromium, Total	1.3		0.2	1.0	ug/L	6020
Nickel, Total	2.7		0.5	2.0	ug/L	6020
Vanadium, Total	1.9	I	0.3	2.0	ug/L	6020
Zinc, Total	2.2	I	1.6	5.0	ug/L	6020
Mercury, Total	0.02	I	0.02	0.10	ug/L	7470A
Benzene	5.7		0.21	1.0	ug/L	8260B
m,p-Xylenes	0.40	I	0.31	2.0	ug/L	8260B
o-Xylene	2.4		0.14	1.0	ug/L	8260B
Toluene	1.9		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	89		10	10	mg/L	SM 2540 C

CLIENT ID: MW-12B		Lab ID: J1509157-002				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	16.5		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.091		0.007	0.010	mg/L	350.1
Iron, Total	850		3	100	ug/L	6010B
Sodium, Total	8.34		0.03	0.50	mg/L	6010B
Silver, Total	0.48	I	0.06	0.50	ug/L	6020
Arsenic, Total	0.5	I	0.5	1.0	ug/L	6020
Barium, Total	24.8		0.5	2.0	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	0.8	I	0.2	1.0	ug/L	6020
Copper, Total	1.0	I	0.3	1.0	ug/L	6020
Vanadium, Total	1.6	I	0.3	2.0	ug/L	6020
Toluene	1.3		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	46		20	20	mg/L	SM 2540 C

CLIENT ID: MW-13A		Lab ID: J1509157-003				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	105		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	1.42		0.007	0.010	mg/L	350.1
Iron, Total	10600		3	100	ug/L	6010B
Sodium, Total	49.9		0.03	0.50	mg/L	6010B
Arsenic, Total	7.5		0.5	1.0	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-13A Lab ID: J1509157-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Barium, Total	48.3		0.5	2.0	ug/L	6020
Beryllium, Total	0.08	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.4	I	0.03	1.0	ug/L	6020
Chromium, Total	1.8		0.2	1.0	ug/L	6020
Nickel, Total	0.8	I	0.5	2.0	ug/L	6020
Vanadium, Total	3.7		0.3	2.0	ug/L	6020
Benzene	1.9		0.21	1.0	ug/L	8260B
Toluene	0.89	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	292		10	10	mg/L	SM 2540 C

CLIENT ID: MW-13B Lab ID: J1509157-004

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	26.2		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.141		0.007	0.010	mg/L	350.1
Iron, Total	1380		3	100	ug/L	6010B
Sodium, Total	12.8		0.03	0.50	mg/L	6010B
Barium, Total	16.2		0.5	2.0	ug/L	6020
Cobalt, Total	0.3	I	0.03	1.0	ug/L	6020
Chromium, Total	0.5	I	0.2	1.0	ug/L	6020
Vanadium, Total	0.5	I	0.3	2.0	ug/L	6020
Toluene	0.89	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	59		10	10	mg/L	SM 2540 C

CLIENT ID: MW-16AR Lab ID: J1509157-005

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	50.1		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.464		0.007	0.010	mg/L	350.1
Iron, Total	610		3	100	ug/L	6010B
Sodium, Total	20.5		0.03	0.50	mg/L	6010B
Arsenic, Total	1.0	I	0.5	1.0	ug/L	6020
Barium, Total	25.7		0.5	2.0	ug/L	6020
Cadmium, Total	0.13	I	0.10	0.40	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	1.5		0.2	1.0	ug/L	6020
Copper, Total	0.7	I	0.3	1.0	ug/L	6020
Nickel, Total	0.9	I	0.5	2.0	ug/L	6020
Antimony, Total	0.7	I	0.2	1.0	ug/L	6020
Vanadium, Total	6.3		0.3	2.0	ug/L	6020
Zinc, Total	6.5		1.6	5.0	ug/L	6020
Benzene	0.92	I	0.21	1.0	ug/L	8260B
cis-1,2-Dichloroethene	0.54	I	0.36	1.0	ug/L	8260B
Toluene	0.96	I	0.19	1.0	ug/L	8260B



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-16AR Lab ID: J1509157-005

Analyte	Results	Flag	MDL	PQL	Units	Method
Solids, Total Dissolved	305		10	10	mg/L	SM 2540 C

CLIENT ID: MW-16BR Lab ID: J1509157-006

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	10.4		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.141		0.007	0.010	mg/L	350.1
Iron, Total	820		3	100	ug/L	6010B
Sodium, Total	7.65		0.03	0.50	mg/L	6010B
Arsenic, Total	0.5	I	0.5	1.0	ug/L	6020
Barium, Total	13.6		0.5	2.0	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	0.7	I	0.2	1.0	ug/L	6020
Lead, Total	0.24	I	0.12	0.50	ug/L	6020
Vanadium, Total	1.1	I	0.3	2.0	ug/L	6020
Mercury, Total	0.02	I	0.02	0.10	ug/L	7470A
Toluene	1.0		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	31		10	10	mg/L	SM 2540 C

CLIENT ID: MW-17AR Lab ID: J1509157-007

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	9.3		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.909		0.007	0.010	mg/L	350.1
Iron, Total	3850		3	100	ug/L	6010B
Sodium, Total	15.3		0.03	0.50	mg/L	6010B
Arsenic, Total	0.9	I	0.5	1.0	ug/L	6020
Barium, Total	74.0		0.5	2.0	ug/L	6020
Beryllium, Total	0.11	I	0.04	0.50	ug/L	6020
Cadmium, Total	0.15	I	0.10	0.40	ug/L	6020
Cobalt, Total	0.8	I	0.03	1.0	ug/L	6020
Chromium, Total	0.9	I	0.2	1.0	ug/L	6020
Copper, Total	1.0		0.3	1.0	ug/L	6020
Nickel, Total	1.6	I	0.5	2.0	ug/L	6020
Vanadium, Total	4.0		0.3	2.0	ug/L	6020
Toluene	0.92	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	121		10	10	mg/L	SM 2540 C

CLIENT ID: MW-17BR Lab ID: J1509157-008

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	37.1		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.150		0.007	0.010	mg/L	350.1
Iron, Total	1430		3	100	ug/L	6010B
Sodium, Total	24.8		0.03	0.50	mg/L	6010B
Arsenic, Total	0.9	I	0.5	1.0	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-17BR	Lab ID: J1509157-008
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Analyte	Results	Flag	MDL	PQL	Units	Method
Barium, Total	30.4		0.5	2.0	ug/L	6020
Cobalt, Total	0.3	I	0.03	1.0	ug/L	6020
Chromium, Total	0.9	I	0.2	1.0	ug/L	6020
Lead, Total	0.27	I	0.12	0.50	ug/L	6020
Vanadium, Total	1.3	I	0.3	2.0	ug/L	6020
Toluene	0.96	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	98		10	10	mg/L	SM 2540 C

CLIENT ID: MW-12A DUP	Lab ID: J1509157-009
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Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	27.8		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.491		0.007	0.010	mg/L	350.1
Iron, Total	2580		3	100	ug/L	6010B
Sodium, Total	17.1		0.03	0.50	mg/L	6010B
Arsenic, Total	1.6		0.5	1.0	ug/L	6020
Barium, Total	21.5		0.5	2.0	ug/L	6020
Beryllium, Total	0.1	I	0.04	0.50	ug/L	6020
Cobalt, Total	1.3		0.03	1.0	ug/L	6020
Chromium, Total	1.3		0.2	1.0	ug/L	6020
Nickel, Total	2.8		0.5	2.0	ug/L	6020
Lead, Total	0.22	I	0.12	0.50	ug/L	6020
Vanadium, Total	1.5	I	0.3	2.0	ug/L	6020
Zinc, Total	3.4	I	1.6	5.0	ug/L	6020
Mercury, Total	0.05	I	0.02	0.10	ug/L	7470A
Benzene	5.5		0.21	1.0	ug/L	8260B
m,p-Xylenes	0.38	I	0.31	2.0	ug/L	8260B
o-Xylene	2.2		0.14	1.0	ug/L	8260B
Toluene	1.3		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	86		10	10	mg/L	SM 2540 C

CLIENT ID: Trip Blank	Lab ID: J1509157-010
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Analyte	Results	Flag	MDL	PQL	Units	Method
Toluene	0.87	I	0.19	1.0	ug/L	8260B



Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request:J1509157
Date Received:11/17/15

CASE NARRATIVE

ALS Environmental

Client: Progressive Waste Solutions of FL, Inc. Service Request No.: J1509157

Project: J.E.D. LANDFILL (F/K/A OAK HAMMOCK DIS) Date Received: 11/17/15

Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

Ten water samples were received for analysis at ALS Environmental on 11/17/15. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatile Organic Analyses: None

Semi-Volatile Organic Analyses: None

Metals Analyses:

Method 6010: The Method Blank JQ1509056-02 contained low levels of analyte Sodium above the Method Reporting Limit (MRL). The amount found in samples J1509157-(1 through 5, and 7, 8, and 9) was over ten times the MB hit. The impact on the data is deemed insignificant, and the data is reported with no further corrective action required.

General Chemistry Analyses: None

Approved by  Date 12/9/2015

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544

Service Request:J1509157

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509157-001	MW-12A	11/16/2015	1500
J1509157-002	MW-12B	11/16/2015	1510
J1509157-003	MW-13A	11/16/2015	1325
J1509157-004	MW-13B	11/16/2015	1305
J1509157-005	MW-16AR	11/16/2015	1150
J1509157-006	MW-16BR	11/16/2015	1130
J1509157-007	MW-17AR	11/16/2015	1030
J1509157-008	MW-17BR	11/16/2015	1005
J1509157-009	MW-12A DUP	11/16/2015	1500
J1509157-010	Trip Blank	11/16/2015	0000

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1509157-001

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 14:24	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 14:24	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 14:24	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 14:24	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 14:24	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 14:24	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 14:24	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 14:24	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 14:24	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 14:24	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 14:24	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 14:24	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 14:24	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 14:24	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 14:24	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 14:24	
Acetone	5.6 U	50	5.6	1	11/18/15 14:24	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 14:24	
Benzene	5.7	1.0	0.21	1	11/18/15 14:24	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 14:24	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 14:24	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 14:24	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 14:24	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 14:24	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 14:24	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 14:24	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 14:24	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 14:24	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 14:24	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 14:24	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 14:24	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 14:24	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 14:24	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 14:24	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 14:24	
m,p-Xylenes	0.40 I	2.0	0.31	1	11/18/15 14:24	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 14:24	
o-Xylene	2.4	1.0	0.14	1	11/18/15 14:24	
Styrene	0.29 U	1.0	0.29	1	11/18/15 14:24	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 14:24	
Toluene	1.9	1.0	0.19	1	11/18/15 14:24	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 14:24	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 14:24	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1509157-001

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 14:24	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 14:24	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 14:24	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 14:24	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 14:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	116	72 - 121	11/18/15 14:24	
4-Bromofluorobenzene	101	86 - 113	11/18/15 14:24	
Dibromofluoromethane	111	86 - 112	11/18/15 14:24	
Toluene-d8	102	88 - 115	11/18/15 14:24	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1509157-001

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00703 U	0.0201	0.00703	1	11/24/15 20:16	11/23/15	
1,2-Dibromoethane (EDB)	0.00703 U	0.0201	0.00703	1	11/24/15 20:16	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	110	70 - 130	11/24/15 20:16	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1509157-001

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 04:36	11/20/15	
Arsenic, Total	6020	1.4	ug/L	1.0	0.5	1	11/25/15 04:36	11/20/15	
Barium, Total	6020	22.2	ug/L	2.0	0.5	1	11/25/15 04:36	11/20/15	
Beryllium, Total	6020	0.12 I	ug/L	0.50	0.04	1	11/25/15 04:36	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 04:36	11/20/15	
Chromium, Total	6020	1.3	ug/L	1.0	0.2	1	11/25/15 04:36	11/20/15	
Cobalt, Total	6020	1.3	ug/L	1.0	0.03	1	11/25/15 04:36	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 04:36	11/20/15	
Iron, Total	6010B	2180	ug/L	100	3	1	11/23/15 17:26	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 04:36	11/20/15	
Mercury, Total	7470A	0.02 I	ug/L	0.10	0.02	1	11/24/15 10:10	11/19/15	
Nickel, Total	6020	2.7	ug/L	2.0	0.5	1	11/25/15 04:36	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 04:36	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 04:36	11/20/15	
Sodium, Total	6010B	15.8	mg/L	0.50	0.03	1	11/23/15 17:26	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 04:36	11/20/15	
Vanadium, Total	6020	1.9 I	ug/L	2.0	0.3	1	11/25/15 04:36	11/20/15	
Zinc, Total	6020	2.2 I	ug/L	5.0	1.6	1	11/25/15 04:36	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A
Lab Code: J1509157-001

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.457	mg/L	0.010	0.007	1	11/20/15 11:27	
Chloride	300.0	28.5	mg/L	1.0	0.2	1	11/17/15 18:40	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 18:40	
Solids, Total Dissolved	SM 2540 C	89	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1509157-002

Service Request: J1509157
Date Collected: 11/16/15 15:10
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 14:48	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 14:48	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 14:48	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 14:48	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 14:48	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 14:48	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 14:48	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 14:48	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 14:48	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 14:48	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 14:48	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 14:48	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 14:48	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 14:48	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 14:48	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 14:48	
Acetone	5.6 U	50	5.6	1	11/18/15 14:48	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 14:48	
Benzene	0.21 U	1.0	0.21	1	11/18/15 14:48	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 14:48	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 14:48	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 14:48	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 14:48	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 14:48	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 14:48	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 14:48	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 14:48	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 14:48	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 14:48	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 14:48	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 14:48	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 14:48	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 14:48	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 14:48	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 14:48	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 14:48	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 14:48	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 14:48	
Styrene	0.29 U	1.0	0.29	1	11/18/15 14:48	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 14:48	
Toluene	1.3	1.0	0.19	1	11/18/15 14:48	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 14:48	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 14:48	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1509157-002

Service Request: J1509157
Date Collected: 11/16/15 15:10
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 14:48	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 14:48	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 14:48	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 14:48	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 14:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	115	72 - 121	11/18/15 14:48	
4-Bromofluorobenzene	98	86 - 113	11/18/15 14:48	
Dibromofluoromethane	107	86 - 112	11/18/15 14:48	
Toluene-d8	98	88 - 115	11/18/15 14:48	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1509157-002

Service Request: J1509157
Date Collected: 11/16/15 15:10
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00708 U	0.0202	0.00708	1	11/24/15 20:42	11/23/15	
1,2-Dibromoethane (EDB)	0.00708 U	0.0202	0.00708	1	11/24/15 20:42	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	108	70 - 130	11/24/15 20:42	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1509157-002

Service Request: J1509157
Date Collected: 11/16/15 15:10
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 04:42	11/20/15	
Arsenic, Total	6020	0.5 I	ug/L	1.0	0.5	1	11/25/15 04:42	11/20/15	
Barium, Total	6020	24.8	ug/L	2.0	0.5	1	11/25/15 04:42	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 04:42	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 04:42	11/20/15	
Chromium, Total	6020	0.8 I	ug/L	1.0	0.2	1	11/25/15 04:42	11/20/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 04:42	11/20/15	
Copper, Total	6020	1.0 I	ug/L	1.0	0.3	1	11/25/15 04:42	11/20/15	
Iron, Total	6010B	850	ug/L	100	3	1	11/23/15 17:30	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 04:42	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:18	11/19/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 04:42	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 04:42	11/20/15	
Silver, Total	6020	0.48 I	ug/L	0.50	0.06	1	11/25/15 04:42	11/20/15	
Sodium, Total	6010B	8.34	mg/L	0.50	0.03	1	11/23/15 17:30	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 04:42	11/20/15	
Vanadium, Total	6020	1.6 I	ug/L	2.0	0.3	1	11/25/15 04:42	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 04:42	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12B
Lab Code: J1509157-002

Service Request: J1509157
Date Collected: 11/16/15 15:10
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.091	mg/L	0.010	0.007	1	11/20/15 11:28	
Chloride	300.0	16.5	mg/L	1.0	0.2	1	11/17/15 19:29	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 19:29	
Solids, Total Dissolved	SM 2540 C	46	mg/L	20	20	2	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1509157-003

Service Request: J1509157
Date Collected: 11/16/15 13:25
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 15:12	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 15:12	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 15:12	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 15:12	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 15:12	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 15:12	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 15:12	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 15:12	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 15:12	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 15:12	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 15:12	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 15:12	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 15:12	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 15:12	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 15:12	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 15:12	
Acetone	5.6 U	50	5.6	1	11/18/15 15:12	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 15:12	
Benzene	1.9	1.0	0.21	1	11/18/15 15:12	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 15:12	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 15:12	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 15:12	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 15:12	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 15:12	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 15:12	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 15:12	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 15:12	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 15:12	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 15:12	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 15:12	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 15:12	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 15:12	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 15:12	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 15:12	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 15:12	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 15:12	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 15:12	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 15:12	
Styrene	0.29 U	1.0	0.29	1	11/18/15 15:12	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 15:12	
Toluene	0.89 I	1.0	0.19	1	11/18/15 15:12	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 15:12	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 15:12	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1509157-003

Service Request: J1509157
Date Collected: 11/16/15 13:25
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 15:12	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 15:12	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 15:12	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 15:12	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 15:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	116	72 - 121	11/18/15 15:12	
4-Bromofluorobenzene	98	86 - 113	11/18/15 15:12	
Dibromofluoromethane	108	86 - 112	11/18/15 15:12	
Toluene-d8	96	88 - 115	11/18/15 15:12	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1509157-003

Service Request: J1509157
Date Collected: 11/16/15 13:25
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00706 U	0.0202	0.00706	1	11/24/15 21:08	11/23/15	
1,2-Dibromoethane (EDB)	0.00706 U	0.0202	0.00706	1	11/24/15 21:08	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	101	70 - 130	11/24/15 21:08	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1509157-003

Service Request: J1509157
Date Collected: 11/16/15 13:25
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:09	11/20/15	
Arsenic, Total	6020	7.5	ug/L	1.0	0.5	1	11/25/15 05:09	11/20/15	
Barium, Total	6020	48.3	ug/L	2.0	0.5	1	11/25/15 05:09	11/20/15	
Beryllium, Total	6020	0.08 I	ug/L	0.50	0.04	1	11/25/15 05:09	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 05:09	11/20/15	
Chromium, Total	6020	1.8	ug/L	1.0	0.2	1	11/25/15 05:09	11/20/15	
Cobalt, Total	6020	0.4 I	ug/L	1.0	0.03	1	11/25/15 05:09	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 05:09	11/20/15	
Iron, Total	6010B	10600	ug/L	100	3	1	11/23/15 17:35	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 05:09	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:20	11/19/15	
Nickel, Total	6020	0.8 I	ug/L	2.0	0.5	1	11/25/15 05:09	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:09	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:09	11/20/15	
Sodium, Total	6010B	49.9	mg/L	0.50	0.03	1	11/23/15 17:35	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:09	11/20/15	
Vanadium, Total	6020	3.7	ug/L	2.0	0.3	1	11/25/15 05:09	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 05:09	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13A
Lab Code: J1509157-003

Service Request: J1509157
Date Collected: 11/16/15 13:25
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	1.42	mg/L	0.010	0.007	1	11/20/15 11:31	
Chloride	300.0	105	mg/L	1.0	0.2	1	11/17/15 19:46	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 19:46	
Solids, Total Dissolved	SM 2540 C	292	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1509157-004

Service Request: J1509157
Date Collected: 11/16/15 13:05
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 15:35	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 15:35	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 15:35	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 15:35	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 15:35	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 15:35	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 15:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 15:35	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 15:35	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 15:35	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 15:35	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 15:35	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 15:35	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 15:35	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 15:35	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 15:35	
Acetone	5.6 U	50	5.6	1	11/18/15 15:35	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 15:35	
Benzene	0.21 U	1.0	0.21	1	11/18/15 15:35	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 15:35	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 15:35	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 15:35	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 15:35	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 15:35	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 15:35	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 15:35	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 15:35	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 15:35	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 15:35	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 15:35	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 15:35	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 15:35	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 15:35	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 15:35	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 15:35	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 15:35	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 15:35	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 15:35	
Styrene	0.29 U	1.0	0.29	1	11/18/15 15:35	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 15:35	
Toluene	0.89 I	1.0	0.19	1	11/18/15 15:35	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 15:35	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 15:35	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1509157-004

Service Request: J1509157
Date Collected: 11/16/15 13:05
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 15:35	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 15:35	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 15:35	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 15:35	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 15:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	113	72 - 121	11/18/15 15:35	
4-Bromofluorobenzene	99	86 - 113	11/18/15 15:35	
Dibromofluoromethane	103	86 - 112	11/18/15 15:35	
Toluene-d8	96	88 - 115	11/18/15 15:35	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1509157-004

Service Request: J1509157
Date Collected: 11/16/15 13:05
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00707 U	0.0202	0.00707	1	11/24/15 21:34	11/23/15	
1,2-Dibromoethane (EDB)	0.00707 U	0.0202	0.00707	1	11/24/15 21:34	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	118	70 - 130	11/24/15 21:34	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1509157-004

Service Request: J1509157
Date Collected: 11/16/15 13:05
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:14	11/20/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 05:14	11/20/15	
Barium, Total	6020	16.2	ug/L	2.0	0.5	1	11/25/15 05:14	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 05:14	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 05:14	11/20/15	
Chromium, Total	6020	0.5 I	ug/L	1.0	0.2	1	11/25/15 05:14	11/20/15	
Cobalt, Total	6020	0.3 I	ug/L	1.0	0.03	1	11/25/15 05:14	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 05:14	11/20/15	
Iron, Total	6010B	1380	ug/L	100	3	1	11/23/15 17:39	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 05:14	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:21	11/19/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 05:14	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:14	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:14	11/20/15	
Sodium, Total	6010B	12.8	mg/L	0.50	0.03	1	11/23/15 17:39	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:14	11/20/15	
Vanadium, Total	6020	0.5 I	ug/L	2.0	0.3	1	11/25/15 05:14	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 05:14	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-13B
Lab Code: J1509157-004

Service Request: J1509157
Date Collected: 11/16/15 13:05
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.141	mg/L	0.010	0.007	1	11/20/15 11:32	
Chloride	300.0	26.2	mg/L	1.0	0.2	1	11/17/15 20:02	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 20:02	
Solids, Total Dissolved	SM 2540 C	59	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16AR
Lab Code: J1509157-005

Service Request: J1509157
Date Collected: 11/16/15 11:50
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 15:59	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 15:59	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 15:59	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 15:59	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 15:59	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 15:59	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 15:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 15:59	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 15:59	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 15:59	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 15:59	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 15:59	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 15:59	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 15:59	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 15:59	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 15:59	
Acetone	5.6 U	50	5.6	1	11/18/15 15:59	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 15:59	
Benzene	0.92 I	1.0	0.21	1	11/18/15 15:59	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 15:59	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 15:59	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 15:59	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 15:59	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 15:59	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 15:59	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 15:59	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 15:59	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 15:59	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 15:59	
cis-1,2-Dichloroethene	0.54 I	1.0	0.36	1	11/18/15 15:59	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 15:59	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 15:59	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 15:59	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 15:59	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 15:59	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 15:59	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 15:59	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 15:59	
Styrene	0.29 U	1.0	0.29	1	11/18/15 15:59	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 15:59	
Toluene	0.96 I	1.0	0.19	1	11/18/15 15:59	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 15:59	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 15:59	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16AR
Lab Code: J1509157-005

Service Request: J1509157
Date Collected: 11/16/15 11:50
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 15:59	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 15:59	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 15:59	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 15:59	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 15:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	116	72 - 121	11/18/15 15:59	
4-Bromofluorobenzene	99	86 - 113	11/18/15 15:59	
Dibromofluoromethane	105	86 - 112	11/18/15 15:59	
Toluene-d8	94	88 - 115	11/18/15 15:59	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16AR
Lab Code: J1509157-005

Service Request: J1509157
Date Collected: 11/16/15 11:50
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00709 U	0.0202	0.00709	1	11/24/15 22:26	11/23/15	
1,2-Dibromoethane (EDB)	0.00709 U	0.0202	0.00709	1	11/24/15 22:26	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	106	70 - 130	11/24/15 22:26	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16AR
Lab Code: J1509157-005

Service Request: J1509157
Date Collected: 11/16/15 11:50
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.7 I	ug/L	1.0	0.2	1	11/25/15 05:31	11/20/15	
Arsenic, Total	6020	1.0 I	ug/L	1.0	0.5	1	11/25/15 05:31	11/20/15	
Barium, Total	6020	25.7	ug/L	2.0	0.5	1	11/25/15 05:31	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 05:31	11/20/15	
Cadmium, Total	6020	0.13 I	ug/L	0.40	0.10	1	11/25/15 05:31	11/20/15	
Chromium, Total	6020	1.5	ug/L	1.0	0.2	1	11/25/15 05:31	11/20/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 05:31	11/20/15	
Copper, Total	6020	0.7 I	ug/L	1.0	0.3	1	11/25/15 05:31	11/20/15	
Iron, Total	6010B	610	ug/L	100	3	1	11/23/15 17:44	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 05:31	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:26	11/19/15	
Nickel, Total	6020	0.9 I	ug/L	2.0	0.5	1	11/25/15 05:31	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:31	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:31	11/20/15	
Sodium, Total	6010B	20.5	mg/L	0.50	0.03	1	11/23/15 17:44	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:31	11/20/15	
Vanadium, Total	6020	6.3	ug/L	2.0	0.3	1	11/25/15 05:31	11/20/15	
Zinc, Total	6020	6.5	ug/L	5.0	1.6	1	11/25/15 05:31	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16AR
Lab Code: J1509157-005

Service Request: J1509157
Date Collected: 11/16/15 11:50
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.464	mg/L	0.010	0.007	1	11/20/15 11:35	
Chloride	300.0	50.1	mg/L	1.0	0.2	1	11/17/15 20:19	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 20:19	
Solids, Total Dissolved	SM 2540 C	305	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16BR
Lab Code: J1509157-006

Service Request: J1509157
Date Collected: 11/16/15 11:30
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 16:23	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 16:23	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 16:23	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 16:23	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 16:23	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 16:23	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 16:23	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 16:23	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 16:23	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 16:23	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 16:23	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 16:23	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 16:23	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 16:23	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 16:23	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 16:23	
Acetone	5.6 U	50	5.6	1	11/18/15 16:23	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 16:23	
Benzene	0.21 U	1.0	0.21	1	11/18/15 16:23	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 16:23	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 16:23	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 16:23	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 16:23	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 16:23	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 16:23	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 16:23	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 16:23	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 16:23	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 16:23	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 16:23	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 16:23	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 16:23	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 16:23	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 16:23	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 16:23	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 16:23	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 16:23	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 16:23	
Styrene	0.29 U	1.0	0.29	1	11/18/15 16:23	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 16:23	
Toluene	1.0	1.0	0.19	1	11/18/15 16:23	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 16:23	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 16:23	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16BR
Lab Code: J1509157-006

Service Request: J1509157
Date Collected: 11/16/15 11:30
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 16:23	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 16:23	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 16:23	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 16:23	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 16:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	117	72 - 121	11/18/15 16:23	
4-Bromofluorobenzene	97	86 - 113	11/18/15 16:23	
Dibromofluoromethane	107	86 - 112	11/18/15 16:23	
Toluene-d8	93	88 - 115	11/18/15 16:23	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16BR
Lab Code: J1509157-006

Service Request: J1509157
Date Collected: 11/16/15 11:30
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0199	0.00700	1	11/24/15 22:52	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	11/24/15 22:52	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	108	70 - 130	11/24/15 22:52	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16BR
Lab Code: J1509157-006

Service Request: J1509157
Date Collected: 11/16/15 11:30
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:36	11/20/15	
Arsenic, Total	6020	0.5 I	ug/L	1.0	0.5	1	11/25/15 05:36	11/20/15	
Barium, Total	6020	13.6	ug/L	2.0	0.5	1	11/25/15 05:36	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 05:36	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 05:36	11/20/15	
Chromium, Total	6020	0.7 I	ug/L	1.0	0.2	1	11/25/15 05:36	11/20/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 05:36	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 05:36	11/20/15	
Iron, Total	6010B	820	ug/L	100	3	1	11/23/15 17:59	11/19/15	
Lead, Total	6020	0.24 I	ug/L	0.50	0.12	1	11/25/15 05:36	11/20/15	
Mercury, Total	7470A	0.02 I	ug/L	0.10	0.02	1	11/24/15 10:27	11/19/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 05:36	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:36	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:36	11/20/15	
Sodium, Total	6010B	7.65	mg/L	0.50	0.03	1	11/25/15 21:17	11/25/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:36	11/20/15	
Vanadium, Total	6020	1.1 I	ug/L	2.0	0.3	1	11/25/15 05:36	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 05:36	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-16BR
Lab Code: J1509157-006

Service Request: J1509157
Date Collected: 11/16/15 11:30
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.141	mg/L	0.010	0.007	1	11/20/15 11:44	
Chloride	300.0	10.4	mg/L	1.0	0.2	1	11/17/15 20:35	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 20:35	
Solids, Total Dissolved	SM 2540 C	31	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17AR
Lab Code: J1509157-007

Service Request: J1509157
Date Collected: 11/16/15 10:30
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 16:46	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 16:46	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 16:46	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 16:46	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 16:46	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 16:46	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 16:46	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 16:46	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 16:46	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 16:46	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 16:46	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 16:46	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 16:46	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 16:46	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 16:46	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 16:46	
Acetone	5.6 U	50	5.6	1	11/18/15 16:46	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 16:46	
Benzene	0.21 U	1.0	0.21	1	11/18/15 16:46	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 16:46	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 16:46	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 16:46	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 16:46	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 16:46	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 16:46	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 16:46	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 16:46	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 16:46	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 16:46	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 16:46	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 16:46	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 16:46	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 16:46	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 16:46	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 16:46	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 16:46	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 16:46	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 16:46	
Styrene	0.29 U	1.0	0.29	1	11/18/15 16:46	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 16:46	
Toluene	0.92 I	1.0	0.19	1	11/18/15 16:46	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 16:46	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 16:46	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17AR
Lab Code: J1509157-007

Service Request: J1509157
Date Collected: 11/16/15 10:30
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 16:46	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 16:46	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 16:46	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 16:46	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 16:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	117	72 - 121	11/18/15 16:46	
4-Bromofluorobenzene	97	86 - 113	11/18/15 16:46	
Dibromofluoromethane	109	86 - 112	11/18/15 16:46	
Toluene-d8	96	88 - 115	11/18/15 16:46	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17AR
Lab Code: J1509157-007

Service Request: J1509157
Date Collected: 11/16/15 10:30
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00706 U	0.0201	0.00706	1	11/24/15 23:18	11/23/15	
1,2-Dibromoethane (EDB)	0.00706 U	0.0201	0.00706	1	11/24/15 23:18	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	116	70 - 130	11/24/15 23:18	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17AR
Lab Code: J1509157-007

Service Request: J1509157
Date Collected: 11/16/15 10:30
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:41	11/20/15	
Arsenic, Total	6020	0.9 I	ug/L	1.0	0.5	1	11/25/15 05:41	11/20/15	
Barium, Total	6020	74.0	ug/L	2.0	0.5	1	11/25/15 05:41	11/20/15	
Beryllium, Total	6020	0.11 I	ug/L	0.50	0.04	1	11/25/15 05:41	11/20/15	
Cadmium, Total	6020	0.15 I	ug/L	0.40	0.10	1	11/25/15 05:41	11/20/15	
Chromium, Total	6020	0.9 I	ug/L	1.0	0.2	1	11/25/15 05:41	11/20/15	
Cobalt, Total	6020	0.8 I	ug/L	1.0	0.03	1	11/25/15 05:41	11/20/15	
Copper, Total	6020	1.0	ug/L	1.0	0.3	1	11/25/15 05:41	11/20/15	
Iron, Total	6010B	3850	ug/L	100	3	1	11/23/15 18:04	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 05:41	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:29	11/19/15	
Nickel, Total	6020	1.6 I	ug/L	2.0	0.5	1	11/25/15 05:41	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:41	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:41	11/20/15	
Sodium, Total	6010B	15.3	mg/L	0.50	0.03	1	11/23/15 18:04	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:41	11/20/15	
Vanadium, Total	6020	4.0	ug/L	2.0	0.3	1	11/25/15 05:41	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 05:41	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17AR
Lab Code: J1509157-007

Service Request: J1509157
Date Collected: 11/16/15 10:30
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.909	mg/L	0.010	0.007	1	11/20/15 11:45	
Chloride	300.0	9.3	mg/L	1.0	0.2	1	11/17/15 20:52	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 20:52	
Solids, Total Dissolved	SM 2540 C	121	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17BR
Lab Code: J1509157-008

Service Request: J1509157
Date Collected: 11/16/15 10:05
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 17:10	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 17:10	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 17:10	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 17:10	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 17:10	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 17:10	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 17:10	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 17:10	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 17:10	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 17:10	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 17:10	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 17:10	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 17:10	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 17:10	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 17:10	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 17:10	
Acetone	5.6 U	50	5.6	1	11/18/15 17:10	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 17:10	
Benzene	0.21 U	1.0	0.21	1	11/18/15 17:10	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 17:10	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 17:10	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 17:10	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 17:10	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 17:10	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 17:10	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 17:10	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 17:10	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 17:10	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 17:10	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 17:10	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 17:10	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 17:10	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 17:10	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 17:10	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 17:10	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 17:10	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 17:10	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 17:10	
Styrene	0.29 U	1.0	0.29	1	11/18/15 17:10	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 17:10	
Toluene	0.96 I	1.0	0.19	1	11/18/15 17:10	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 17:10	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 17:10	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17BR
Lab Code: J1509157-008

Service Request: J1509157
Date Collected: 11/16/15 10:05
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 17:10	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 17:10	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 17:10	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 17:10	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 17:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	120	72 - 121	11/18/15 17:10	
4-Bromofluorobenzene	98	86 - 113	11/18/15 17:10	
Dibromofluoromethane	110	86 - 112	11/18/15 17:10	
Toluene-d8	91	88 - 115	11/18/15 17:10	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17BR
Lab Code: J1509157-008

Service Request: J1509157
Date Collected: 11/16/15 10:05
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00701 U	0.0200	0.00701	1	11/24/15 23:44	11/23/15	
1,2-Dibromoethane (EDB)	0.00701 U	0.0200	0.00701	1	11/24/15 23:44	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	113	70 - 130	11/24/15 23:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17BR
Lab Code: J1509157-008

Service Request: J1509157
Date Collected: 11/16/15 10:05
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:47	11/20/15	
Arsenic, Total	6020	0.9 I	ug/L	1.0	0.5	1	11/25/15 05:47	11/20/15	
Barium, Total	6020	30.4	ug/L	2.0	0.5	1	11/25/15 05:47	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 05:47	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 05:47	11/20/15	
Chromium, Total	6020	0.9 I	ug/L	1.0	0.2	1	11/25/15 05:47	11/20/15	
Cobalt, Total	6020	0.3 I	ug/L	1.0	0.03	1	11/25/15 05:47	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 05:47	11/20/15	
Iron, Total	6010B	1430	ug/L	100	3	1	11/23/15 18:08	11/19/15	
Lead, Total	6020	0.27 I	ug/L	0.50	0.12	1	11/25/15 05:47	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:30	11/19/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 05:47	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:47	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:47	11/20/15	
Sodium, Total	6010B	24.8	mg/L	0.50	0.03	1	11/23/15 18:08	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:47	11/20/15	
Vanadium, Total	6020	1.3 I	ug/L	2.0	0.3	1	11/25/15 05:47	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 05:47	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-17BR
Lab Code: J1509157-008

Service Request: J1509157
Date Collected: 11/16/15 10:05
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.150	mg/L	0.010	0.007	1	11/20/15 11:46	
Chloride	300.0	37.1	mg/L	1.0	0.2	1	11/17/15 21:08	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 21:08	
Solids, Total Dissolved	SM 2540 C	98	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A DUP
Lab Code: J1509157-009

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 17:35	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 17:35	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 17:35	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 17:35	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 17:35	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 17:35	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 17:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 17:35	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 17:35	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 17:35	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 17:35	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 17:35	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 17:35	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 17:35	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 17:35	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 17:35	
Acetone	5.6 U	50	5.6	1	11/18/15 17:35	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 17:35	
Benzene	5.5	1.0	0.21	1	11/18/15 17:35	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 17:35	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 17:35	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 17:35	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 17:35	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 17:35	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 17:35	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 17:35	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 17:35	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 17:35	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 17:35	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 17:35	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 17:35	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 17:35	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 17:35	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 17:35	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 17:35	
m,p-Xylenes	0.38 I	2.0	0.31	1	11/18/15 17:35	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 17:35	
o-Xylene	2.2	1.0	0.14	1	11/18/15 17:35	
Styrene	0.29 U	1.0	0.29	1	11/18/15 17:35	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 17:35	
Toluene	1.3	1.0	0.19	1	11/18/15 17:35	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 17:35	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 17:35	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A DUP
Lab Code: J1509157-009

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 17:35	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 17:35	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 17:35	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 17:35	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 17:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	116	72 - 121	11/18/15 17:35	
4-Bromofluorobenzene	100	86 - 113	11/18/15 17:35	
Dibromofluoromethane	112	86 - 112	11/18/15 17:35	
Toluene-d8	100	88 - 115	11/18/15 17:35	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A DUP
Lab Code: J1509157-009

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00706 U	0.0201	0.00706	1	11/25/15 00:10	11/23/15	
1,2-Dibromoethane (EDB)	0.00706 U	0.0201	0.00706	1	11/25/15 00:10	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	110	70 - 130	11/25/15 00:10	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A DUP
Lab Code: J1509157-009

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 05:52	11/20/15	
Arsenic, Total	6020	1.6	ug/L	1.0	0.5	1	11/25/15 05:52	11/20/15	
Barium, Total	6020	21.5	ug/L	2.0	0.5	1	11/25/15 05:52	11/20/15	
Beryllium, Total	6020	0.1 I	ug/L	0.50	0.04	1	11/25/15 05:52	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 05:52	11/20/15	
Chromium, Total	6020	1.3	ug/L	1.0	0.2	1	11/25/15 05:52	11/20/15	
Cobalt, Total	6020	1.3	ug/L	1.0	0.03	1	11/25/15 05:52	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 05:52	11/20/15	
Iron, Total	6010B	2580	ug/L	100	3	1	11/23/15 18:13	11/19/15	
Lead, Total	6020	0.22 I	ug/L	0.50	0.12	1	11/25/15 05:52	11/20/15	
Mercury, Total	7470A	0.05 I	ug/L	0.10	0.02	1	11/24/15 10:31	11/19/15	
Nickel, Total	6020	2.8	ug/L	2.0	0.5	1	11/25/15 05:52	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 05:52	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 05:52	11/20/15	
Sodium, Total	6010B	17.1	mg/L	0.50	0.03	1	11/23/15 18:13	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 05:52	11/20/15	
Vanadium, Total	6020	1.5 I	ug/L	2.0	0.3	1	11/25/15 05:52	11/20/15	
Zinc, Total	6020	3.4 I	ug/L	5.0	1.6	1	11/25/15 05:52	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-12A DUP
Lab Code: J1509157-009

Service Request: J1509157
Date Collected: 11/16/15 15:00
Date Received: 11/17/15 10:20

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.491	mg/L	0.010	0.007	1	11/20/15 11:47	
Chloride	300.0	27.8	mg/L	1.0	0.2	1	11/17/15 21:25	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 21:25	
Solids, Total Dissolved	SM 2540 C	86	mg/L	10	10	1	11/19/15 16:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1509157-010

Service Request: J1509157
Date Collected: 11/16/15 00:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 14:01	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 14:01	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 14:01	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 14:01	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 14:01	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 14:01	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 14:01	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 14:01	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 14:01	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 14:01	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 14:01	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 14:01	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 14:01	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 14:01	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 14:01	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 14:01	
Acetone	5.6 U	50	5.6	1	11/18/15 14:01	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 14:01	
Benzene	0.21 U	1.0	0.21	1	11/18/15 14:01	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 14:01	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 14:01	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 14:01	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 14:01	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 14:01	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 14:01	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 14:01	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 14:01	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 14:01	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 14:01	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 14:01	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 14:01	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 14:01	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 14:01	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 14:01	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 14:01	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 14:01	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 14:01	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 14:01	
Styrene	0.29 U	1.0	0.29	1	11/18/15 14:01	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 14:01	
Toluene	0.87 I	1.0	0.19	1	11/18/15 14:01	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 14:01	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 14:01	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1509157-010

Service Request: J1509157
Date Collected: 11/16/15 00:00
Date Received: 11/17/15 10:20

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 14:01	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 14:01	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 14:01	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 14:01	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 14:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	113	72 - 121	11/18/15 14:01	
4-Bromofluorobenzene	98	86 - 113	11/18/15 14:01	
Dibromofluoromethane	105	86 - 112	11/18/15 14:01	
Toluene-d8	96	88 - 115	11/18/15 14:01	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509012-03

Service Request: J1509157
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/18/15 13:11	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/18/15 13:11	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/18/15 13:11	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/18/15 13:11	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/18/15 13:11	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/18/15 13:11	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/18/15 13:11	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/18/15 13:11	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/18/15 13:11	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/18/15 13:11	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/18/15 13:11	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/18/15 13:11	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/18/15 13:11	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/18/15 13:11	
2-Hexanone	2.2 U	25	2.2	1	11/18/15 13:11	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/18/15 13:11	
Acetone	5.6 U	50	5.6	1	11/18/15 13:11	
Acrylonitrile	1.5 U	10	1.5	1	11/18/15 13:11	
Benzene	0.21 U	1.0	0.21	1	11/18/15 13:11	
Bromochloromethane	0.27 U	5.0	0.27	1	11/18/15 13:11	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/18/15 13:11	
Bromoform	0.42 U	2.0	0.42	1	11/18/15 13:11	
Bromomethane	0.23 U	5.0	0.23	1	11/18/15 13:11	
Carbon Disulfide	2.4 U	10	2.4	1	11/18/15 13:11	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/18/15 13:11	
Chlorobenzene	0.16 U	1.0	0.16	1	11/18/15 13:11	
Chloroethane	0.52 U	5.0	0.52	1	11/18/15 13:11	
Chloroform	0.35 U	1.0	0.35	1	11/18/15 13:11	
Chloromethane	0.36 U	1.0	0.36	1	11/18/15 13:11	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/18/15 13:11	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/18/15 13:11	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/18/15 13:11	
Dibromomethane	0.36 U	5.0	0.36	1	11/18/15 13:11	
Ethylbenzene	0.21 U	1.0	0.21	1	11/18/15 13:11	
Iodomethane	2.7 U	5.0	2.7	1	11/18/15 13:11	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/18/15 13:11	
Methylene Chloride	0.21 U	5.0	0.21	1	11/18/15 13:11	
o-Xylene	0.14 U	1.0	0.14	1	11/18/15 13:11	
Styrene	0.29 U	1.0	0.29	1	11/18/15 13:11	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/18/15 13:11	
Toluene	0.19 U	1.0	0.19	1	11/18/15 13:11	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/18/15 13:11	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/18/15 13:11	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509012-03

Service Request: J1509157
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/18/15 13:11	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/18/15 13:11	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/18/15 13:11	
Vinyl Acetate	1.9 U	10	1.9	1	11/18/15 13:11	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/18/15 13:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	113	72 - 121	11/18/15 13:11	
4-Bromofluorobenzene	102	86 - 113	11/18/15 13:11	
Dibromofluoromethane	102	86 - 112	11/18/15 13:11	
Toluene-d8	92	88 - 115	11/18/15 13:11	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509141-01

Service Request: J1509157
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/24/15 17:40	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/24/15 17:40	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	120	70 - 130	11/24/15 17:40	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509157-MB1

Service Request: J1509157
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 04:26	11/20/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 04:26	11/20/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 04:26	11/20/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 04:26	11/20/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 04:26	11/20/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 04:26	11/20/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/25/15 04:26	11/20/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 04:26	11/20/15	
Iron, Total	6010B	10 I	ug/L	100	3	1	11/23/15 17:16	11/19/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 04:26	11/20/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/24/15 10:06	11/19/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 04:26	11/20/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 04:26	11/20/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 04:26	11/20/15	
Sodium, Total	6010B	0.82	mg/L	0.50	0.03	1	11/23/15 17:16	11/19/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 04:26	11/20/15	
Vanadium, Total	6020	0.4 I	ug/L	2.0	0.3	1	11/25/15 04:26	11/20/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 04:26	11/20/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509157-MB2

Service Request: J1509157
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Sodium, Total	6010B	0.07 I	mg/L	0.50	0.03	1	11/25/15 20:58	11/25/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509157-MB1

Service Request: J1509157
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 10:50	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/17/15 16:11	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/17/15 16:11	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/19/15 16:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509157-MB2

Service Request: J1509157
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 11:33	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK)
Sample Matrix: Water

Service Request: J1509157

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-12A	J1509157-001	116	101	111
MW-12B	J1509157-002	115	98	107
MW-13A	J1509157-003	116	98	108
MW-13B	J1509157-004	113	99	103
MW-16AR	J1509157-005	116	99	105
MW-16BR	J1509157-006	117	97	107
MW-17AR	J1509157-007	117	97	109
MW-17BR	J1509157-008	120	98	110
MW-12A DUP	J1509157-009	116	100	112
Trip Blank	J1509157-010	113	98	105
Lab Control Sample	JQ1509012-01	109	103	107
Duplicate Lab Control Sample	JQ1509012-02	108	99	107
Method Blank	JQ1509012-03	113	102	102

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK)
Sample Matrix: Water

Service Request: J1509157

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-12A	J1509157-001	102
MW-12B	J1509157-002	98
MW-13A	J1509157-003	96
MW-13B	J1509157-004	96
MW-16AR	J1509157-005	94
MW-16BR	J1509157-006	93
MW-17AR	J1509157-007	96
MW-17BR	J1509157-008	91
MW-12A DUP	J1509157-009	100
Trip Blank	J1509157-010	96
Lab Control Sample	JQ1509012-01	96
Duplicate Lab Control Sample	JQ1509012-02	94
Method Blank	JQ1509012-03	92

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc. **Service Request:** J1509157
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544 **Date Analyzed:** 11/18/15
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B **Units:** ug/L
Basis: NA
Analysis Lot: 472682

Analyte Name	Lab Control Sample JQ1509012-01			Duplicate Lab Control Sample JQ1509012-02			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	54.3	50.0	109	51.5	50.0	103	77-118	5	30
1,1,1-Trichloroethane (TCA)	53.0	50.0	106	50.9	50.0	102	70-122	4	30
1,1,2,2-Tetrachloroethane	48.2	50.0	96	48.0	50.0	96	66-135	<1	30
1,1,2-Trichloroethane	49.5	50.0	99	49.0	50.0	98	75-122	<1	30
1,1-Dichloroethane (1,1-DCA)	51.8	50.0	104	50.4	50.0	101	79-117	3	30
1,1-Dichloroethene (1,1-DCE)	51.4	50.0	103	49.7	50.0	99	72-128	3	30
1,2,3-Trichloropropane	50.6	50.0	101	50.3	50.0	101	70-123	<1	30
1,2-Dibromo-3-chloropropane (DBCP)	49.6	50.0	99	46.8	50.0	94	60-122	6	30
1,2-Dibromoethane (EDB)	50.9	50.0	102	49.5	50.0	99	76-118	3	30
1,2-Dichlorobenzene	50.9	50.0	102	49.3	50.0	99	81-115	3	30
1,2-Dichloroethane	52.8	50.0	106	52.8	50.0	106	70-117	<1	30
1,2-Dichloropropane	50.4	50.0	101	50.5	50.0	101	79-117	<1	30
1,4-Dichlorobenzene	51.5	50.0	103	50.3	50.0	101	82-115	2	30
2-Butanone (MEK)	47.9	50.0	96	49.8	50.0	100	62-138	4	30
2-Hexanone	49.9	50.0	100	48.9	50.0	98	74-127	2	30
4-Methyl-2-pentanone (MIBK)	50.2	50.0	100	50.0	50.0	100	77-120	<1	30
Acetone	53.1	50.0	106	52.7	50.0	105	42-161	<1	30
Acrylonitrile	46.0	50.0	92	47.6	50.0	95	63-132	3	30
Benzene	50.8	50.0	102	49.5	50.0	99	80-117	3	30
Bromochloromethane	52.6	50.0	105	52.4	50.0	105	78-118	<1	30
Bromodichloromethane	54.9	50.0	110	53.7	50.0	107	75-118	2	30
Bromoform	52.4	50.0	105	50.8	50.0	102	63-121	3	30
Bromomethane	53.3	50.0	107	52.7	50.0	105	31-153	1	30
Carbon Disulfide	47.1	50.0	94	44.8	50.0	90	72-128	5	30
Carbon Tetrachloride	50.8	50.0	102	49.3	50.0	99	67-124	3	30
Chlorobenzene	52.0	50.0	104	50.1	50.0	100	83-118	4	30
Chloroethane	54.7	50.0	109	54.8	50.0	110	68-132	<1	30
Chloroform	53.8	50.0	108	52.2	50.0	104	77-116	3	30
Chloromethane	39.4	50.0	79	38.5	50.0	77	60-128	2	30
cis-1,2-Dichloroethene	53.1	50.0	106	51.1	50.0	102	78-117	4	30
cis-1,3-Dichloropropene	53.4	50.0	107	51.4	50.0	103	80-119	4	30
Dibromochloromethane	55.1	50.0	110	53.4	50.0	107	74-121	3	30
Dibromomethane	54.5	50.0	109	53.6	50.0	107	76-117	2	30
Ethylbenzene	51.5	50.0	103	49.7	50.0	99	82-119	4	30
Iodomethane	52.4	50.0	105	47.2	50.0	94	51-137	10	30
Methylene Chloride	47.2	50.0	94	47.2	50.0	94	75-123	<1	30
o-Xylene	47.6	50.0	95	47.2	50.0	94	80-119	<1	30
Styrene	48.6	50.0	97	48.0	50.0	96	80-121	1	30
Tetrachloroethene (PCE)	50.2	50.0	100	46.8	50.0	94	75-126	7	30
Toluene	49.2	50.0	98	46.5	50.0	93	52-152	6	30
trans-1,2-Dichloroethene	51.3	50.0	103	50.2	50.0	100	75-121	2	30

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dba ALS Environmental

QA/QC Report

Client:	Progressive Waste Solutions of FL, Inc.	Service Request:	J1509157
Project:	J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544	Date Analyzed:	11/18/15
Sample Matrix:	Water		

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method:	8260B	Units:	ug/L
		Basis:	NA
		Analysis Lot:	472682

Analyte Name	Lab Control Sample JQ1509012-01			Duplicate Lab Control Sample JQ1509012-02			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,3-Dichloropropene	50.6	50.0	101	49.0	50.0	98	76-118	3	30
trans-1,4-Dichloro-2-butene	53.9	50.0	108	51.4	50.0	103	10-198	5	30
Trichloroethene (TCE)	52.0	50.0	104	51.1	50.0	102	78-122	2	30
Trichlorofluoromethane	53.1	50.0	106	50.1	50.0	100	58-134	6	30
Vinyl Acetate	50.3	50.0	101	49.5	50.0	99	36-169	2	30
Vinyl Chloride	46.0	50.0	92	44.7	50.0	89	69-138	3	30

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK)
Sample Matrix: Water

Service Request: J1509157

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-12A	J1509157-001	110
MW-12B	J1509157-002	108
MW-13A	J1509157-003	101
MW-13B	J1509157-004	118
MW-16AR	J1509157-005	106
MW-16BR	J1509157-006	108
MW-17AR	J1509157-007	116
MW-17BR	J1509157-008	113
MW-12A DUP	J1509157-009	110
Method Blank	JQ1509141-01	120
Lab Control Sample	JQ1509141-02	109

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request:J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/25/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-12B
Lab Code: J1509157-002

Units:ug/L
Basis:NA

Matrix Spike
J1509157-002MS

Duplicate Matrix Spike
J1509157-002DMS

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit	
		Result	Result	Amount	% Rec	Result	Amount				% Rec
Antimony, Total	6020	0.2	55.2	50.0	110	55.6	50.0	111	75-125	<1	20
Arsenic, Total	6020	0.5	52.2	50.0	103	52.4	50.0	104	75-125	<1	20
Barium, Total	6020	24.8	129	100	104	129	100	104	75-125	<1	20
Beryllium, Total	6020	0.04	24.5	25.0	98	25.0	25.0	100	75-125	2	20
Cadmium, Total	6020	0.10	20.0	20.0	100	20.6	20.0	103	75-125	3	20
Chromium, Total	6020	0.8	51.7	50.0	102	52.2	50.0	103	75-125	<1	20
Cobalt, Total	6020	0.2	51.7	50.0	103	51.9	50.0	103	75-125	<1	20
Copper, Total	6020	1.0	51.2	50.0	100	52.2	50.0	102	75-125	2	20
Lead, Total	6020	0.12	26.0	25.0	104	26.0	25.0	104	75-125	<1	20
Nickel, Total	6020	0.5	103	100	103	105	100	105	75-125	2	20
Selenium, Total	6020	1.1	79.2	100	79	79.5	100	79	75-125	<1	20
Silver, Total	6020	0.48	26.3	25.0	103	26.4	25.0	104	75-125	<1	20
Thallium, Total	6020	0.05	10.4	10.0	104	10.4	10.0	104	75-125	<1	20
Vanadium, Total	6020	1.6	103	100	101	103	100	101	75-125	<1	20
Zinc, Total	6020	1.6	254	250	102	254	250	102	75-125	<1	20

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/24/15
Date Extracted: 11/19/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-12A **Units:** ug/L
Lab Code: J1509157-001 **Basis:** NA
Analysis Method: 7470A
Prep Method: Method

Analyte Name	Sample Result	Result	Matrix Spike J1509157-001MS		Duplicate Matrix Spike J1509157-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Mercury, Total	0.02 I	1.3	1.25	101	1.3	1.25	100	75-125	2	20

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157

Date Analyzed: 11/25/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample
J1509157-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	56.4	50.0	113	80-120
Arsenic, Total	6020	51.7	50.0	103	80-120
Barium, Total	6020	105	100	105	80-120
Beryllium, Total	6020	24.7	25.0	99	80-120
Cadmium, Total	6020	20.8	20.0	104	80-120
Chromium, Total	6020	52.0	50.0	104	80-120
Cobalt, Total	6020	52.4	50.0	105	80-120
Copper, Total	6020	52.5	50.0	105	80-120
Lead, Total	6020	25.9	25.0	104	80-120
Nickel, Total	6020	107	100	107	80-120
Selenium, Total	6020	102	100	102	80-120
Silver, Total	6020	27.1	25.0	108	80-120
Thallium, Total	6020	10.4	10.0	104	80-120
Vanadium, Total	6020	103	100	103	80-120
Zinc, Total	6020	259	250	104	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157

Date Analyzed: 11/23/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample
J1509157-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	5100	5000	102	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Analyzed: 11/23/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509157-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	25.5	25.0	102	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157

Date Analyzed: 11/24/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample
J1509157-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.33	1.25	106	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Analyzed: 11/25/15
Date Extracted: 11/25/15

Lab Control Sample Summary
Sodium, Total

Analysis Method: 6010B
Prep Method: EPA 3005A

Units: mg/L
Basis: NA
Analysis Lot: 473955

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1509157-LCS2	26.0	25.0	104	80-120

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/17/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12A DUP
Lab Code: J1509157-009

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509157-009DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Chloride	300.0	1.0	0.2	27.8	27.7	27.8	<1	20
Nitrate as Nitrogen	300.0	0.20	0.03	0.03 U	0.03 U	NC	NC	20

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/19/15 - 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12B
Lab Code: J1509157-002

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	PQL	MDL	Sample Result	Duplicate Sample J1509157-002DUP Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	350.1	0.010	0.007	0.091	0.091	0.0913	<1	20
Solids, Total Dissolved	SM 2540 C	20	20	46	50	48.0	8	10

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ALS Group USA, Corp.

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/20/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16AR
Lab Code: J1509157-005

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509157-005DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	350.1	0.010	0.007	0.464	0.457	0.461	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request:J1509157
Date Collected:11/16/15
Date Received:11/17/15
Date Analyzed:11/17/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-12A DUP
Lab Code: J1509157-009

Units:mg/L
Basis:NA

Matrix Spike
J1509157-009MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	27.8	50.4	25.0	90	90-110
Nitrate as Nitrogen	300.0	0.03	5.05	5.00	101	90-110

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/20/15

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-12B
Lab Code: J1509157-002
Analysis Method: 350.1

Units: mg/L
Basis: NA

Matrix Spike
J1509157-002MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.091	0.862	1.00	77 *	90-110

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Collected: 11/16/15
Date Received: 11/17/15
Date Analyzed: 11/20/15

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-16AR
Lab Code: J1509157-005
Analysis Method: 350.1

Units: mg/L
Basis: NA

Matrix Spike
J1509157-005MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.464	1.14	1.00	68 *	90-110

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157

Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

J1509157-LCS1

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	350.1	0.944	1.00	94	90-110

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Analyzed: 11/17/15

**Lab Control Sample Summary
General Chemistry Parameters**

Units:mg/L

Basis:NA

Lab Control Sample

J1509157-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	24.6	25.0	98	90-110
Nitrate as Nitrogen	300.0	5.10	5.00	102	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Analyzed: 11/19/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509157-LCS1

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Solids, Total Dissolved	SM 2540 C	293	300	98	85-115

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509157
Date Analyzed: 11/20/15

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: 350.1

Units: mg/L
Basis: NA
Analysis Lot: 473109

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	J1509157-LCS2	0.949	1.00	95	90-110

Cooler Receipt Form

Client: PLWSPZ Service Request #: 31509157
 Project: JED SWDF
 Cooler received on 11/17/15 and opened on 11/17/15 by SL

COURIER: ALS UPS FEDEX Client Other _____ Airbill # 7817 2518 7857

- 1 Were custody seals on outside of cooler? Yes No
 If yes, how many and where? #: 1 on lid other
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) 1.0°C
- 5 Thermometer ID T81
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present? Ice Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
 Netting Vial Holder Bubble Wrap
 Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were all VOA vials free of air bubbles? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: _____



November 30, 2015

Service Request No:J1509048

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: JED SWDF

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 12, 2015
For your reference, these analyses have been assigned our service request number **J1509048**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-24A Lab ID: J1509048-001

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	14.6		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.066		0.007	0.010	mg/L	350.1
Iron, Total	460		3	100	ug/L	6010B
Sodium, Total	9.38		0.03	0.50	mg/L	6010B
Barium, Total	8.6		0.5	2.0	ug/L	6020
Beryllium, Total	0.05	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.1	I	0.03	1.0	ug/L	6020
Chromium, Total	1.4		0.2	1.0	ug/L	6020
Lead, Total	0.23	I	0.12	0.50	ug/L	6020
Vanadium, Total	1.7	I	0.3	2.0	ug/L	6020
Toluene	1.8		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	42		10	10	mg/L	SM 2540 C

CLIENT ID: MW-24B Lab ID: J1509048-002

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	6.7		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.073		0.007	0.010	mg/L	350.1
Iron, Total	520		3	100	ug/L	6010B
Sodium, Total	4.88		0.03	0.50	mg/L	6010B
Arsenic, Total	0.6	I	0.5	1.0	ug/L	6020
Barium, Total	9.8		0.5	2.0	ug/L	6020
Beryllium, Total	0.04	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	1.1		0.2	1.0	ug/L	6020
Nickel, Total	0.8	I	0.5	2.0	ug/L	6020
Lead, Total	0.36	I	0.12	0.50	ug/L	6020
Vanadium, Total	1.6	I	0.3	2.0	ug/L	6020
Toluene	0.67	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	25		10	10	mg/L	SM 2540 C

CLIENT ID: MW-25A Lab ID: J1509048-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	36.4		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	1.59		0.007	0.010	mg/L	350.1
Iron, Total	10600		3	100	ug/L	6010B
Sodium, Total	26.6		0.03	0.50	mg/L	6010B
Arsenic, Total	1.3		0.5	1.0	ug/L	6020
Barium, Total	87.7		0.5	2.0	ug/L	6020
Beryllium, Total	0.33	I	0.04	0.50	ug/L	6020
Cobalt, Total	2.0		0.03	1.0	ug/L	6020
Chromium, Total	1.3		0.2	1.0	ug/L	6020
Nickel, Total	0.7	I	0.5	2.0	ug/L	6020



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-25A Lab ID: J1509048-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Vanadium, Total	2.9		0.3	2.0	ug/L	6020
Toluene	2.1		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	247		10	10	mg/L	SM 2540 C

CLIENT ID: MW-25B Lab ID: J1509048-004

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	21.3		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.154		0.007	0.010	mg/L	350.1
Iron, Total	2220		3	100	ug/L	6010B
Sodium, Total	12.9		0.03	0.50	mg/L	6010B
Arsenic, Total	0.9	I	0.5	1.0	ug/L	6020
Barium, Total	133		0.5	2.0	ug/L	6020
Beryllium, Total	0.46	I	0.04	0.50	ug/L	6020
Cadmium, Total	0.83		0.10	0.40	ug/L	6020
Cobalt, Total	0.7	I	0.03	1.0	ug/L	6020
Chromium, Total	9.1		0.2	1.0	ug/L	6020
Copper, Total	2.2		0.3	1.0	ug/L	6020
Nickel, Total	2.6		0.5	2.0	ug/L	6020
Lead, Total	5.27		0.12	0.50	ug/L	6020
Antimony, Total	0.2	I	0.2	1.0	ug/L	6020
Selenium, Total	2.2		1.1	2.0	ug/L	6020
Vanadium, Total	14.7		0.3	2.0	ug/L	6020
Zinc, Total	2.3	I	1.6	5.0	ug/L	6020
Mercury, Total	0.04	I	0.02	0.10	ug/L	7470A
Toluene	0.58	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	142		10	10	mg/L	SM 2540 C

CLIENT ID: MW-26A Lab ID: J1509048-005

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	25.0		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.310		0.007	0.010	mg/L	350.1
Iron, Total	2870		3	100	ug/L	6010B
Sodium, Total	13.2		0.03	0.50	mg/L	6010B
Barium, Total	15.2		0.5	2.0	ug/L	6020
Beryllium, Total	0.1	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.5	I	0.03	1.0	ug/L	6020
Chromium, Total	1.5		0.2	1.0	ug/L	6020
Lead, Total	0.32	I	0.12	0.50	ug/L	6020
Vanadium, Total	0.9	I	0.3	2.0	ug/L	6020
Toluene	1.0		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	65		10	10	mg/L	SM 2540 C



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-26B		Lab ID: J1509048-006				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	15.6		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.247		0.007	0.010	mg/L	350.1
Iron, Total	2030		3	100	ug/L	6010B
Sodium, Total	10.6		0.03	0.50	mg/L	6010B
Barium, Total	41.4		0.5	2.0	ug/L	6020
Beryllium, Total	0.14	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.4	I	0.03	1.0	ug/L	6020
Chromium, Total	4.0		0.2	1.0	ug/L	6020
Copper, Total	0.7	I	0.3	1.0	ug/L	6020
Nickel, Total	0.7	I	0.5	2.0	ug/L	6020
Lead, Total	2.44		0.12	0.50	ug/L	6020
Vanadium, Total	5.2		0.3	2.0	ug/L	6020
Mercury, Total	0.02	I	0.02	0.10	ug/L	7470A
Toluene	0.72	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	94		10	10	mg/L	SM 2540 C

CLIENT ID: Trip Blank-1		Lab ID: J1509048-007				
Analyte	Results	Flag	MDL	PQL	Units	Method
Methylene Chloride	0.28	I	0.21	5.0	ug/L	8260B
Toluene	0.83	I	0.19	1.0	ug/L	8260B

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF

Service Request:J1509048

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509048-001	MW-24A	11/11/2015	1040
J1509048-002	MW-24B	11/11/2015	1115
J1509048-003	MW-25A	11/11/2015	1215
J1509048-004	MW-25B	11/11/2015	1240
J1509048-005	MW-26A	11/11/2015	1340
J1509048-006	MW-26B	11/11/2015	1405
J1509048-007	Trip Blank-1	11/11/2015	0000

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-24A
Lab Code: J1509048-001

Service Request: J1509048
Date Collected: 11/11/15 10:40
Date Received: 11/12/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/12/15 23:01	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/12/15 23:01	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/12/15 23:01	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/12/15 23:01	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/12/15 23:01	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/12/15 23:01	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/12/15 23:01	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/12/15 23:01	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/12/15 23:01	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/12/15 23:01	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/12/15 23:01	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/12/15 23:01	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/12/15 23:01	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/12/15 23:01	
2-Hexanone	2.2 U	25	2.2	1	11/12/15 23:01	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/12/15 23:01	
Acetone	5.6 U	50	5.6	1	11/12/15 23:01	
Acrylonitrile	1.5 U	10	1.5	1	11/12/15 23:01	
Benzene	0.21 U	1.0	0.21	1	11/12/15 23:01	
Bromochloromethane	0.27 U	5.0	0.27	1	11/12/15 23:01	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/12/15 23:01	
Bromoform	0.42 U	2.0	0.42	1	11/12/15 23:01	
Bromomethane	0.23 U	5.0	0.23	1	11/12/15 23:01	
Carbon Disulfide	2.4 U	10	2.4	1	11/12/15 23:01	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/12/15 23:01	
Chlorobenzene	0.16 U	1.0	0.16	1	11/12/15 23:01	
Chloroethane	0.52 U	5.0	0.52	1	11/12/15 23:01	
Chloroform	0.35 U	1.0	0.35	1	11/12/15 23:01	
Chloromethane	0.36 U	1.0	0.36	1	11/12/15 23:01	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/12/15 23:01	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/12/15 23:01	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/12/15 23:01	
Dibromomethane	0.36 U	5.0	0.36	1	11/12/15 23:01	
Ethylbenzene	0.21 U	1.0	0.21	1	11/12/15 23:01	
Iodomethane	2.7 U	5.0	2.7	1	11/12/15 23:01	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/12/15 23:01	
Methylene Chloride	0.21 U	5.0	0.21	1	11/12/15 23:01	
o-Xylene	0.14 U	1.0	0.14	1	11/12/15 23:01	
Styrene	0.29 U	1.0	0.29	1	11/12/15 23:01	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/12/15 23:01	
Toluene	1.8	1.0	0.19	1	11/12/15 23:01	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/12/15 23:01	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/12/15 23:01	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 10:40
Date Received: 11/12/15 10:00

Sample Name: MW-24A
Lab Code: J1509048-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/12/15 23:01	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/12/15 23:01	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/12/15 23:01	
Vinyl Acetate	1.9 U	10	1.9	1	11/12/15 23:01	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/12/15 23:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/12/15 23:01	
4-Bromofluorobenzene	103	86 - 113	11/12/15 23:01	
Dibromofluoromethane	99	86 - 112	11/12/15 23:01	
Toluene-d8	99	88 - 115	11/12/15 23:01	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 10:40
Date Received: 11/12/15 10:00

Sample Name: MW-24A
Lab Code: J1509048-001

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00704 U	0.0201	0.00704	1	11/24/15 02:20	11/23/15	
1,2-Dibromoethane (EDB)	0.00704 U	0.0201	0.00704	1	11/24/15 02:20	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	101	70 - 130	11/24/15 02:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-24A
Lab Code: J1509048-001

Service Request: J1509048
Date Collected: 11/11/15 10:40
Date Received: 11/12/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 22:28	11/17/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/18/15 22:28	11/17/15	
Barium, Total	6020	8.6	ug/L	2.0	0.5	1	11/18/15 22:28	11/17/15	
Beryllium, Total	6020	0.05 I	ug/L	0.50	0.04	1	11/18/15 22:28	11/17/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/18/15 22:28	11/17/15	
Chromium, Total	6020	1.4	ug/L	1.0	0.2	1	11/18/15 22:28	11/17/15	
Cobalt, Total	6020	0.1 I	ug/L	1.0	0.03	1	11/18/15 22:28	11/17/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/18/15 22:28	11/17/15	
Iron, Total	6010B	460	ug/L	100	3	1	11/16/15 20:57	11/16/15	
Lead, Total	6020	0.23 I	ug/L	0.50	0.12	1	11/18/15 22:28	11/17/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:42	11/18/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/18/15 22:28	11/17/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/18/15 22:28	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 22:28	11/17/15	
Sodium, Total	6010B	9.38	mg/L	0.50	0.03	1	11/16/15 20:57	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 22:28	11/17/15	
Vanadium, Total	6020	1.7 I	ug/L	2.0	0.3	1	11/18/15 22:28	11/17/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/18/15 22:28	11/17/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-24A
Lab Code: J1509048-001

Service Request: J1509048
Date Collected: 11/11/15 10:40
Date Received: 11/12/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.066	mg/L	0.010	0.007	1	11/16/15 12:56	
Chloride	300.0	14.6	mg/L	1.0	0.2	1	11/13/15 01:16	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 01:16	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 01:16	
Solids, Total Dissolved	SM 2540 C	42	mg/L	10	10	1	11/18/15 11:17	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-24B
Lab Code: J1509048-002

Service Request: J1509048
Date Collected: 11/11/15 11:15
Date Received: 11/12/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/12/15 23:24	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/12/15 23:24	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/12/15 23:24	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/12/15 23:24	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/12/15 23:24	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/12/15 23:24	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/12/15 23:24	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/12/15 23:24	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/12/15 23:24	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/12/15 23:24	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/12/15 23:24	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/12/15 23:24	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/12/15 23:24	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/12/15 23:24	
2-Hexanone	2.2 U	25	2.2	1	11/12/15 23:24	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/12/15 23:24	
Acetone	5.6 U	50	5.6	1	11/12/15 23:24	
Acrylonitrile	1.5 U	10	1.5	1	11/12/15 23:24	
Benzene	0.21 U	1.0	0.21	1	11/12/15 23:24	
Bromochloromethane	0.27 U	5.0	0.27	1	11/12/15 23:24	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/12/15 23:24	
Bromoform	0.42 U	2.0	0.42	1	11/12/15 23:24	
Bromomethane	0.23 U	5.0	0.23	1	11/12/15 23:24	
Carbon Disulfide	2.4 U	10	2.4	1	11/12/15 23:24	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/12/15 23:24	
Chlorobenzene	0.16 U	1.0	0.16	1	11/12/15 23:24	
Chloroethane	0.52 U	5.0	0.52	1	11/12/15 23:24	
Chloroform	0.35 U	1.0	0.35	1	11/12/15 23:24	
Chloromethane	0.36 U	1.0	0.36	1	11/12/15 23:24	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/12/15 23:24	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/12/15 23:24	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/12/15 23:24	
Dibromomethane	0.36 U	5.0	0.36	1	11/12/15 23:24	
Ethylbenzene	0.21 U	1.0	0.21	1	11/12/15 23:24	
Iodomethane	2.7 U	5.0	2.7	1	11/12/15 23:24	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/12/15 23:24	
Methylene Chloride	0.21 U	5.0	0.21	1	11/12/15 23:24	
o-Xylene	0.14 U	1.0	0.14	1	11/12/15 23:24	
Styrene	0.29 U	1.0	0.29	1	11/12/15 23:24	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/12/15 23:24	
Toluene	0.67 I	1.0	0.19	1	11/12/15 23:24	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/12/15 23:24	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/12/15 23:24	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 11:15
Date Received: 11/12/15 10:00

Sample Name: MW-24B
Lab Code: J1509048-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/12/15 23:24	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/12/15 23:24	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/12/15 23:24	
Vinyl Acetate	1.9 U	10	1.9	1	11/12/15 23:24	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/12/15 23:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/12/15 23:24	
4-Bromofluorobenzene	103	86 - 113	11/12/15 23:24	
Dibromofluoromethane	98	86 - 112	11/12/15 23:24	
Toluene-d8	99	88 - 115	11/12/15 23:24	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 11:15
Date Received: 11/12/15 10:00

Sample Name: MW-24B
Lab Code: J1509048-002

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00714 U	0.0204	0.00714	1	11/24/15 03:37	11/23/15	
1,2-Dibromoethane (EDB)	0.00714 U	0.0204	0.00714	1	11/24/15 03:37	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	99	70 - 130	11/24/15 03:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-24B
Lab Code: J1509048-002

Service Request: J1509048
Date Collected: 11/11/15 11:15
Date Received: 11/12/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 22:33	11/17/15	
Arsenic, Total	6020	0.6 I	ug/L	1.0	0.5	1	11/18/15 22:33	11/17/15	
Barium, Total	6020	9.8	ug/L	2.0	0.5	1	11/18/15 22:33	11/17/15	
Beryllium, Total	6020	0.04 I	ug/L	0.50	0.04	1	11/18/15 22:33	11/17/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/18/15 22:33	11/17/15	
Chromium, Total	6020	1.1	ug/L	1.0	0.2	1	11/18/15 22:33	11/17/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/18/15 22:33	11/17/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/18/15 22:33	11/17/15	
Iron, Total	6010B	520	ug/L	100	3	1	11/16/15 21:02	11/16/15	
Lead, Total	6020	0.36 I	ug/L	0.50	0.12	1	11/18/15 22:33	11/17/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:43	11/18/15	
Nickel, Total	6020	0.8 I	ug/L	2.0	0.5	1	11/18/15 22:33	11/17/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/18/15 22:33	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 22:33	11/17/15	
Sodium, Total	6010B	4.88	mg/L	0.50	0.03	1	11/16/15 21:02	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 22:33	11/17/15	
Vanadium, Total	6020	1.6 I	ug/L	2.0	0.3	1	11/18/15 22:33	11/17/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/18/15 22:33	11/17/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-24B
Lab Code: J1509048-002

Service Request: J1509048
Date Collected: 11/11/15 11:15
Date Received: 11/12/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.073	mg/L	0.010	0.007	1	11/16/15 12:57	
Chloride	300.0	6.7	mg/L	1.0	0.2	1	11/13/15 01:33	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 01:33	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 01:33	
Solids, Total Dissolved	SM 2540 C	25	mg/L	10	10	1	11/18/15 11:17	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 12:15
Date Received: 11/12/15 10:00

Sample Name: MW-25A
Lab Code: J1509048-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/12/15 23:46	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/12/15 23:46	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/12/15 23:46	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/12/15 23:46	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/12/15 23:46	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/12/15 23:46	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/12/15 23:46	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/12/15 23:46	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/12/15 23:46	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/12/15 23:46	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/12/15 23:46	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/12/15 23:46	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/12/15 23:46	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/12/15 23:46	
2-Hexanone	2.2 U	25	2.2	1	11/12/15 23:46	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/12/15 23:46	
Acetone	5.6 U	50	5.6	1	11/12/15 23:46	
Acrylonitrile	1.5 U	10	1.5	1	11/12/15 23:46	
Benzene	0.21 U	1.0	0.21	1	11/12/15 23:46	
Bromochloromethane	0.27 U	5.0	0.27	1	11/12/15 23:46	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/12/15 23:46	
Bromoform	0.42 U	2.0	0.42	1	11/12/15 23:46	
Bromomethane	0.23 U	5.0	0.23	1	11/12/15 23:46	
Carbon Disulfide	2.4 U	10	2.4	1	11/12/15 23:46	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/12/15 23:46	
Chlorobenzene	0.16 U	1.0	0.16	1	11/12/15 23:46	
Chloroethane	0.52 U	5.0	0.52	1	11/12/15 23:46	
Chloroform	0.35 U	1.0	0.35	1	11/12/15 23:46	
Chloromethane	0.36 U	1.0	0.36	1	11/12/15 23:46	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/12/15 23:46	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/12/15 23:46	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/12/15 23:46	
Dibromomethane	0.36 U	5.0	0.36	1	11/12/15 23:46	
Ethylbenzene	0.21 U	1.0	0.21	1	11/12/15 23:46	
Iodomethane	2.7 U	5.0	2.7	1	11/12/15 23:46	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/12/15 23:46	
Methylene Chloride	0.21 U	5.0	0.21	1	11/12/15 23:46	
o-Xylene	0.14 U	1.0	0.14	1	11/12/15 23:46	
Styrene	0.29 U	1.0	0.29	1	11/12/15 23:46	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/12/15 23:46	
Toluene	2.1	1.0	0.19	1	11/12/15 23:46	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/12/15 23:46	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/12/15 23:46	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 12:15
Date Received: 11/12/15 10:00

Sample Name: MW-25A
Lab Code: J1509048-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/12/15 23:46	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/12/15 23:46	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/12/15 23:46	
Vinyl Acetate	1.9 U	10	1.9	1	11/12/15 23:46	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/12/15 23:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/12/15 23:46	
4-Bromofluorobenzene	103	86 - 113	11/12/15 23:46	
Dibromofluoromethane	100	86 - 112	11/12/15 23:46	
Toluene-d8	99	88 - 115	11/12/15 23:46	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 12:15
Date Received: 11/12/15 10:00

Sample Name: MW-25A
Lab Code: J1509048-003

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0198	0.00700	1	11/24/15 04:02	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0198	0.00700	1	11/24/15 04:02	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	95	70 - 130	11/24/15 04:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-25A
Lab Code: J1509048-003

Service Request: J1509048
Date Collected: 11/11/15 12:15
Date Received: 11/12/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 23:11	11/17/15	
Arsenic, Total	6020	1.3	ug/L	1.0	0.5	1	11/18/15 23:11	11/17/15	
Barium, Total	6020	87.7	ug/L	2.0	0.5	1	11/18/15 23:11	11/17/15	
Beryllium, Total	6020	0.33 I	ug/L	0.50	0.04	1	11/18/15 23:11	11/17/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/18/15 23:11	11/17/15	
Chromium, Total	6020	1.3	ug/L	1.0	0.2	1	11/18/15 23:11	11/17/15	
Cobalt, Total	6020	2.0	ug/L	1.0	0.03	1	11/18/15 23:11	11/17/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/18/15 23:11	11/17/15	
Iron, Total	6010B	10600	ug/L	100	3	1	11/16/15 21:06	11/16/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/18/15 23:11	11/17/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:44	11/18/15	
Nickel, Total	6020	0.7 I	ug/L	2.0	0.5	1	11/18/15 23:11	11/17/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/18/15 23:11	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 23:11	11/17/15	
Sodium, Total	6010B	26.6	mg/L	0.50	0.03	1	11/16/15 21:06	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 23:11	11/17/15	
Vanadium, Total	6020	2.9	ug/L	2.0	0.3	1	11/18/15 23:11	11/17/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/18/15 23:11	11/17/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-25A
Lab Code: J1509048-003

Service Request: J1509048
Date Collected: 11/11/15 12:15
Date Received: 11/12/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	1.59	mg/L	0.010	0.007	1	11/16/15 13:04	
Chloride	300.0	36.4	mg/L	1.0	0.2	1	11/13/15 01:49	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 01:49	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 01:49	
Solids, Total Dissolved	SM 2540 C	247	mg/L	10	10	1	11/18/15 11:17	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-25B
Lab Code: J1509048-004

Service Request: J1509048
Date Collected: 11/11/15 12:40
Date Received: 11/12/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/13/15 00:09	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/13/15 00:09	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/13/15 00:09	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/13/15 00:09	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/13/15 00:09	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/13/15 00:09	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/13/15 00:09	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/13/15 00:09	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/13/15 00:09	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/13/15 00:09	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/13/15 00:09	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/13/15 00:09	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/13/15 00:09	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/13/15 00:09	
2-Hexanone	2.2 U	25	2.2	1	11/13/15 00:09	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/13/15 00:09	
Acetone	5.6 U	50	5.6	1	11/13/15 00:09	
Acrylonitrile	1.5 U	10	1.5	1	11/13/15 00:09	
Benzene	0.21 U	1.0	0.21	1	11/13/15 00:09	
Bromochloromethane	0.27 U	5.0	0.27	1	11/13/15 00:09	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/13/15 00:09	
Bromoform	0.42 U	2.0	0.42	1	11/13/15 00:09	
Bromomethane	0.23 U	5.0	0.23	1	11/13/15 00:09	
Carbon Disulfide	2.4 U	10	2.4	1	11/13/15 00:09	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/13/15 00:09	
Chlorobenzene	0.16 U	1.0	0.16	1	11/13/15 00:09	
Chloroethane	0.52 U	5.0	0.52	1	11/13/15 00:09	
Chloroform	0.35 U	1.0	0.35	1	11/13/15 00:09	
Chloromethane	0.36 U	1.0	0.36	1	11/13/15 00:09	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/13/15 00:09	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/13/15 00:09	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/13/15 00:09	
Dibromomethane	0.36 U	5.0	0.36	1	11/13/15 00:09	
Ethylbenzene	0.21 U	1.0	0.21	1	11/13/15 00:09	
Iodomethane	2.7 U	5.0	2.7	1	11/13/15 00:09	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/13/15 00:09	
Methylene Chloride	0.21 U	5.0	0.21	1	11/13/15 00:09	
o-Xylene	0.14 U	1.0	0.14	1	11/13/15 00:09	
Styrene	0.29 U	1.0	0.29	1	11/13/15 00:09	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/13/15 00:09	
Toluene	0.58 I	1.0	0.19	1	11/13/15 00:09	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/13/15 00:09	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/13/15 00:09	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 12:40
Date Received: 11/12/15 10:00

Sample Name: MW-25B
Lab Code: J1509048-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/13/15 00:09	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/13/15 00:09	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/13/15 00:09	
Vinyl Acetate	1.9 U	10	1.9	1	11/13/15 00:09	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/13/15 00:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/13/15 00:09	
4-Bromofluorobenzene	103	86 - 113	11/13/15 00:09	
Dibromofluoromethane	100	86 - 112	11/13/15 00:09	
Toluene-d8	98	88 - 115	11/13/15 00:09	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 12:40
Date Received: 11/12/15 10:00

Sample Name: MW-25B
Lab Code: J1509048-004

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00702 U	0.0200	0.00702	1	11/24/15 04:28	11/23/15	
1,2-Dibromoethane (EDB)	0.00702 U	0.0200	0.00702	1	11/24/15 04:28	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	102	70 - 130	11/24/15 04:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-25B
Lab Code: J1509048-004

Service Request: J1509048
Date Collected: 11/11/15 12:40
Date Received: 11/12/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 I	ug/L	1.0	0.2	1	11/18/15 23:16	11/17/15	
Arsenic, Total	6020	0.9 I	ug/L	1.0	0.5	1	11/18/15 23:16	11/17/15	
Barium, Total	6020	133	ug/L	2.0	0.5	1	11/18/15 23:16	11/17/15	
Beryllium, Total	6020	0.46 I	ug/L	0.50	0.04	1	11/18/15 23:16	11/17/15	
Cadmium, Total	6020	0.83	ug/L	0.40	0.10	1	11/18/15 23:16	11/17/15	
Chromium, Total	6020	9.1	ug/L	1.0	0.2	1	11/18/15 23:16	11/17/15	
Cobalt, Total	6020	0.7 I	ug/L	1.0	0.03	1	11/18/15 23:16	11/17/15	
Copper, Total	6020	2.2	ug/L	1.0	0.3	1	11/18/15 23:16	11/17/15	
Iron, Total	6010B	2220	ug/L	100	3	1	11/16/15 21:21	11/16/15	
Lead, Total	6020	5.27	ug/L	0.50	0.12	1	11/18/15 23:16	11/17/15	
Mercury, Total	7470A	0.04 I	ug/L	0.10	0.02	1	11/18/15 13:46	11/18/15	
Nickel, Total	6020	2.6	ug/L	2.0	0.5	1	11/18/15 23:16	11/17/15	
Selenium, Total	6020	2.2	ug/L	2.0	1.1	1	11/18/15 23:16	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 23:16	11/17/15	
Sodium, Total	6010B	12.9	mg/L	0.50	0.03	1	11/16/15 21:21	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 23:16	11/17/15	
Vanadium, Total	6020	14.7	ug/L	2.0	0.3	1	11/18/15 23:16	11/17/15	
Zinc, Total	6020	2.3 I	ug/L	5.0	1.6	1	11/18/15 23:16	11/17/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-25B
Lab Code: J1509048-004

Service Request: J1509048
Date Collected: 11/11/15 12:40
Date Received: 11/12/15 10:00
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.154	mg/L	0.010	0.007	1	11/16/15 13:05	
Chloride	300.0	21.3	mg/L	1.0	0.2	1	11/13/15 02:06	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 02:06	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 02:06	
Solids, Total Dissolved	SM 2540 C	142	mg/L	10	10	1	11/18/15 11:17	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-26A
Lab Code: J1509048-005

Service Request: J1509048
Date Collected: 11/11/15 13:40
Date Received: 11/12/15 10:00

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/13/15 00:32	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/13/15 00:32	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/13/15 00:32	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/13/15 00:32	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/13/15 00:32	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/13/15 00:32	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/13/15 00:32	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/13/15 00:32	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/13/15 00:32	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/13/15 00:32	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/13/15 00:32	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/13/15 00:32	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/13/15 00:32	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/13/15 00:32	
2-Hexanone	2.2 U	25	2.2	1	11/13/15 00:32	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/13/15 00:32	
Acetone	5.6 U	50	5.6	1	11/13/15 00:32	
Acrylonitrile	1.5 U	10	1.5	1	11/13/15 00:32	
Benzene	0.21 U	1.0	0.21	1	11/13/15 00:32	
Bromochloromethane	0.27 U	5.0	0.27	1	11/13/15 00:32	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/13/15 00:32	
Bromoform	0.42 U	2.0	0.42	1	11/13/15 00:32	
Bromomethane	0.23 U	5.0	0.23	1	11/13/15 00:32	
Carbon Disulfide	2.4 U	10	2.4	1	11/13/15 00:32	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/13/15 00:32	
Chlorobenzene	0.16 U	1.0	0.16	1	11/13/15 00:32	
Chloroethane	0.52 U	5.0	0.52	1	11/13/15 00:32	
Chloroform	0.35 U	1.0	0.35	1	11/13/15 00:32	
Chloromethane	0.36 U	1.0	0.36	1	11/13/15 00:32	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/13/15 00:32	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/13/15 00:32	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/13/15 00:32	
Dibromomethane	0.36 U	5.0	0.36	1	11/13/15 00:32	
Ethylbenzene	0.21 U	1.0	0.21	1	11/13/15 00:32	
Iodomethane	2.7 U	5.0	2.7	1	11/13/15 00:32	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/13/15 00:32	
Methylene Chloride	0.21 U	5.0	0.21	1	11/13/15 00:32	
o-Xylene	0.14 U	1.0	0.14	1	11/13/15 00:32	
Styrene	0.29 U	1.0	0.29	1	11/13/15 00:32	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/13/15 00:32	
Toluene	1.0	1.0	0.19	1	11/13/15 00:32	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/13/15 00:32	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/13/15 00:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 13:40
Date Received: 11/12/15 10:00

Sample Name: MW-26A
Lab Code: J1509048-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/13/15 00:32	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/13/15 00:32	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/13/15 00:32	
Vinyl Acetate	1.9 U	10	1.9	1	11/13/15 00:32	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/13/15 00:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/13/15 00:32	
4-Bromofluorobenzene	103	86 - 113	11/13/15 00:32	
Dibromofluoromethane	100	86 - 112	11/13/15 00:32	
Toluene-d8	98	88 - 115	11/13/15 00:32	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 13:40
Date Received: 11/12/15 10:00

Sample Name: MW-26A
Lab Code: J1509048-005

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00706 U	0.0201	0.00706	1	11/24/15 05:19	11/23/15	
1,2-Dibromoethane (EDB)	0.00706 U	0.0201	0.00706	1	11/24/15 05:19	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	101	70 - 130	11/24/15 05:19	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-26A
Lab Code: J1509048-005

Service Request: J1509048
Date Collected: 11/11/15 13:40
Date Received: 11/12/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 23:21	11/17/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/18/15 23:21	11/17/15	
Barium, Total	6020	15.2	ug/L	2.0	0.5	1	11/18/15 23:21	11/17/15	
Beryllium, Total	6020	0.1 I	ug/L	0.50	0.04	1	11/18/15 23:21	11/17/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/18/15 23:21	11/17/15	
Chromium, Total	6020	1.5	ug/L	1.0	0.2	1	11/18/15 23:21	11/17/15	
Cobalt, Total	6020	0.5 I	ug/L	1.0	0.03	1	11/18/15 23:21	11/17/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/18/15 23:21	11/17/15	
Iron, Total	6010B	2870	ug/L	100	3	1	11/16/15 21:26	11/16/15	
Lead, Total	6020	0.32 I	ug/L	0.50	0.12	1	11/18/15 23:21	11/17/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:47	11/18/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/18/15 23:21	11/17/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/18/15 23:21	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 23:21	11/17/15	
Sodium, Total	6010B	13.2	mg/L	0.50	0.03	1	11/16/15 21:26	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 23:21	11/17/15	
Vanadium, Total	6020	0.9 I	ug/L	2.0	0.3	1	11/18/15 23:21	11/17/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/18/15 23:21	11/17/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-26A
Lab Code: J1509048-005

Service Request: J1509048
Date Collected: 11/11/15 13:40
Date Received: 11/12/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.310	mg/L	0.010	0.007	1	11/16/15 13:06	
Chloride	300.0	25.0	mg/L	1.0	0.2	1	11/13/15 02:22	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 02:22	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 02:22	
Solids, Total Dissolved	SM 2540 C	65	mg/L	10	10	1	11/18/15 11:17	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-26B
Lab Code: J1509048-006

Service Request: J1509048
Date Collected: 11/11/15 14:05
Date Received: 11/12/15 10:00
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/13/15 00:55	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/13/15 00:55	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/13/15 00:55	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/13/15 00:55	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/13/15 00:55	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/13/15 00:55	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/13/15 00:55	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/13/15 00:55	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/13/15 00:55	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/13/15 00:55	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/13/15 00:55	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/13/15 00:55	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/13/15 00:55	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/13/15 00:55	
2-Hexanone	2.2 U	25	2.2	1	11/13/15 00:55	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/13/15 00:55	
Acetone	5.6 U	50	5.6	1	11/13/15 00:55	
Acrylonitrile	1.5 U	10	1.5	1	11/13/15 00:55	
Benzene	0.21 U	1.0	0.21	1	11/13/15 00:55	
Bromochloromethane	0.27 U	5.0	0.27	1	11/13/15 00:55	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/13/15 00:55	
Bromoform	0.42 U	2.0	0.42	1	11/13/15 00:55	
Bromomethane	0.23 U	5.0	0.23	1	11/13/15 00:55	
Carbon Disulfide	2.4 U	10	2.4	1	11/13/15 00:55	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/13/15 00:55	
Chlorobenzene	0.16 U	1.0	0.16	1	11/13/15 00:55	
Chloroethane	0.52 U	5.0	0.52	1	11/13/15 00:55	
Chloroform	0.35 U	1.0	0.35	1	11/13/15 00:55	
Chloromethane	0.36 U	1.0	0.36	1	11/13/15 00:55	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/13/15 00:55	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/13/15 00:55	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/13/15 00:55	
Dibromomethane	0.36 U	5.0	0.36	1	11/13/15 00:55	
Ethylbenzene	0.21 U	1.0	0.21	1	11/13/15 00:55	
Iodomethane	2.7 U	5.0	2.7	1	11/13/15 00:55	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/13/15 00:55	
Methylene Chloride	0.21 U	5.0	0.21	1	11/13/15 00:55	
o-Xylene	0.14 U	1.0	0.14	1	11/13/15 00:55	
Styrene	0.29 U	1.0	0.29	1	11/13/15 00:55	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/13/15 00:55	
Toluene	0.72 I	1.0	0.19	1	11/13/15 00:55	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/13/15 00:55	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/13/15 00:55	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 14:05
Date Received: 11/12/15 10:00

Sample Name: MW-26B
Lab Code: J1509048-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/13/15 00:55	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/13/15 00:55	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/13/15 00:55	
Vinyl Acetate	1.9 U	10	1.9	1	11/13/15 00:55	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/13/15 00:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/13/15 00:55	
4-Bromofluorobenzene	103	86 - 113	11/13/15 00:55	
Dibromofluoromethane	99	86 - 112	11/13/15 00:55	
Toluene-d8	98	88 - 115	11/13/15 00:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 14:05
Date Received: 11/12/15 10:00

Sample Name: MW-26B
Lab Code: J1509048-006

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0199	0.00700	1	11/24/15 05:45	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	11/24/15 05:45	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	105	70 - 130	11/24/15 05:45	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-26B
Lab Code: J1509048-006

Service Request: J1509048
Date Collected: 11/11/15 14:05
Date Received: 11/12/15 10:00

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 23:27	11/17/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/18/15 23:27	11/17/15	
Barium, Total	6020	41.4	ug/L	2.0	0.5	1	11/18/15 23:27	11/17/15	
Beryllium, Total	6020	0.14 I	ug/L	0.50	0.04	1	11/18/15 23:27	11/17/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/18/15 23:27	11/17/15	
Chromium, Total	6020	4.0	ug/L	1.0	0.2	1	11/18/15 23:27	11/17/15	
Cobalt, Total	6020	0.4 I	ug/L	1.0	0.03	1	11/18/15 23:27	11/17/15	
Copper, Total	6020	0.7 I	ug/L	1.0	0.3	1	11/18/15 23:27	11/17/15	
Iron, Total	6010B	2030	ug/L	100	3	1	11/16/15 21:30	11/16/15	
Lead, Total	6020	2.44	ug/L	0.50	0.12	1	11/18/15 23:27	11/17/15	
Mercury, Total	7470A	0.02 I	ug/L	0.10	0.02	1	11/18/15 13:49	11/18/15	
Nickel, Total	6020	0.7 I	ug/L	2.0	0.5	1	11/18/15 23:27	11/17/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/18/15 23:27	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 23:27	11/17/15	
Sodium, Total	6010B	10.6	mg/L	0.50	0.03	1	11/16/15 21:30	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 23:27	11/17/15	
Vanadium, Total	6020	5.2	ug/L	2.0	0.3	1	11/18/15 23:27	11/17/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/18/15 23:27	11/17/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: MW-26B
Lab Code: J1509048-006

Service Request: J1509048
Date Collected: 11/11/15 14:05
Date Received: 11/12/15 10:00

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.247	mg/L	0.010	0.007	1	11/16/15 13:07	
Chloride	300.0	15.6	mg/L	1.0	0.2	1	11/13/15 02:39	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 02:39	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 02:39	
Solids, Total Dissolved	SM 2540 C	94	mg/L	10	10	1	11/18/15 11:17	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 00:00
Date Received: 11/12/15 10:00

Sample Name: Trip Blank-1
Lab Code: J1509048-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/12/15 21:07	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/12/15 21:07	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/12/15 21:07	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/12/15 21:07	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/12/15 21:07	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/12/15 21:07	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/12/15 21:07	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/12/15 21:07	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/12/15 21:07	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/12/15 21:07	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/12/15 21:07	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/12/15 21:07	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/12/15 21:07	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/12/15 21:07	
2-Hexanone	2.2 U	25	2.2	1	11/12/15 21:07	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/12/15 21:07	
Acetone	5.6 U	50	5.6	1	11/12/15 21:07	
Acrylonitrile	1.5 U	10	1.5	1	11/12/15 21:07	
Benzene	0.21 U	1.0	0.21	1	11/12/15 21:07	
Bromochloromethane	0.27 U	5.0	0.27	1	11/12/15 21:07	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/12/15 21:07	
Bromoform	0.42 U	2.0	0.42	1	11/12/15 21:07	
Bromomethane	0.23 U	5.0	0.23	1	11/12/15 21:07	
Carbon Disulfide	2.4 U	10	2.4	1	11/12/15 21:07	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/12/15 21:07	
Chlorobenzene	0.16 U	1.0	0.16	1	11/12/15 21:07	
Chloroethane	0.52 U	5.0	0.52	1	11/12/15 21:07	
Chloroform	0.35 U	1.0	0.35	1	11/12/15 21:07	
Chloromethane	0.36 U	1.0	0.36	1	11/12/15 21:07	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/12/15 21:07	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/12/15 21:07	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/12/15 21:07	
Dibromomethane	0.36 U	5.0	0.36	1	11/12/15 21:07	
Ethylbenzene	0.21 U	1.0	0.21	1	11/12/15 21:07	
Iodomethane	2.7 U	5.0	2.7	1	11/12/15 21:07	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/12/15 21:07	
Methylene Chloride	0.28 I	5.0	0.21	1	11/12/15 21:07	
o-Xylene	0.14 U	1.0	0.14	1	11/12/15 21:07	
Styrene	0.29 U	1.0	0.29	1	11/12/15 21:07	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/12/15 21:07	
Toluene	0.83 I	1.0	0.19	1	11/12/15 21:07	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/12/15 21:07	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/12/15 21:07	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15 00:00
Date Received: 11/12/15 10:00

Sample Name: Trip Blank-1
Lab Code: J1509048-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/12/15 21:07	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/12/15 21:07	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/12/15 21:07	
Vinyl Acetate	1.9 U	10	1.9	1	11/12/15 21:07	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/12/15 21:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/12/15 21:07	
4-Bromofluorobenzene	103	86 - 113	11/12/15 21:07	
Dibromofluoromethane	97	86 - 112	11/12/15 21:07	
Toluene-d8	99	88 - 115	11/12/15 21:07	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1508834-05

Service Request: J1509048
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/12/15 20:44	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/12/15 20:44	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/12/15 20:44	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/12/15 20:44	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/12/15 20:44	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/12/15 20:44	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/12/15 20:44	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/12/15 20:44	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/12/15 20:44	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/12/15 20:44	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/12/15 20:44	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/12/15 20:44	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/12/15 20:44	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/12/15 20:44	
2-Hexanone	2.2 U	25	2.2	1	11/12/15 20:44	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/12/15 20:44	
Acetone	5.6 U	50	5.6	1	11/12/15 20:44	
Acrylonitrile	1.5 U	10	1.5	1	11/12/15 20:44	
Benzene	0.21 U	1.0	0.21	1	11/12/15 20:44	
Bromochloromethane	0.27 U	5.0	0.27	1	11/12/15 20:44	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/12/15 20:44	
Bromoform	0.42 U	2.0	0.42	1	11/12/15 20:44	
Bromomethane	0.23 U	5.0	0.23	1	11/12/15 20:44	
Carbon Disulfide	2.4 U	10	2.4	1	11/12/15 20:44	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/12/15 20:44	
Chlorobenzene	0.16 U	1.0	0.16	1	11/12/15 20:44	
Chloroethane	0.52 U	5.0	0.52	1	11/12/15 20:44	
Chloroform	0.35 U	1.0	0.35	1	11/12/15 20:44	
Chloromethane	0.36 U	1.0	0.36	1	11/12/15 20:44	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/12/15 20:44	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/12/15 20:44	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/12/15 20:44	
Dibromomethane	0.36 U	5.0	0.36	1	11/12/15 20:44	
Ethylbenzene	0.21 U	1.0	0.21	1	11/12/15 20:44	
Iodomethane	2.7 U	5.0	2.7	1	11/12/15 20:44	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/12/15 20:44	
Methylene Chloride	0.21 U	5.0	0.21	1	11/12/15 20:44	
o-Xylene	0.14 U	1.0	0.14	1	11/12/15 20:44	
Styrene	0.29 U	1.0	0.29	1	11/12/15 20:44	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/12/15 20:44	
Toluene	0.19 U	1.0	0.19	1	11/12/15 20:44	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/12/15 20:44	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/12/15 20:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1508834-05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/12/15 20:44	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/12/15 20:44	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/12/15 20:44	
Vinyl Acetate	1.9 U	10	1.9	1	11/12/15 20:44	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/12/15 20:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	72 - 121	11/12/15 20:44	
4-Bromofluorobenzene	103	86 - 113	11/12/15 20:44	
Dibromofluoromethane	98	86 - 112	11/12/15 20:44	
Toluene-d8	98	88 - 115	11/12/15 20:44	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: JQ1509138-01

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/24/15 00:38	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/24/15 00:38	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	117	70 - 130	11/24/15 00:38	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509048-MB

Service Request: J1509048
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 22:06	11/17/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/18/15 22:06	11/17/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/18/15 22:06	11/17/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/18/15 22:06	11/17/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/18/15 22:06	11/17/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/18/15 22:06	11/17/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/18/15 22:06	11/17/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/18/15 22:06	11/17/15	
Iron, Total	6010B	8 I	ug/L	100	3	1	11/16/15 20:06	11/16/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/18/15 22:06	11/17/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:32	11/18/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/18/15 22:06	11/17/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/18/15 22:06	11/17/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/18/15 22:06	11/17/15	
Sodium, Total	6010B	0.03 U	mg/L	0.50	0.03	1	11/16/15 20:06	11/16/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/18/15 22:06	11/17/15	
Vanadium, Total	6020	0.3 U	ug/L	2.0	0.3	1	11/18/15 22:06	11/17/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/18/15 22:06	11/17/15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509048-MB

Service Request: J1509048
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/16/15 12:35	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/12/15 22:32	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/12/15 22:32	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/12/15 22:32	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/18/15 11:17	

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-24A	J1509048-001	104	103	99
MW-24B	J1509048-002	105	103	98
MW-25A	J1509048-003	104	103	100
MW-25B	J1509048-004	104	103	100
MW-26A	J1509048-005	104	103	100
MW-26B	J1509048-006	105	103	99
Trip Blank-1	J1509048-007	104	103	97
Lab Control Sample	JQ1508834-03	101	100	100
Duplicate Lab Control Sample	JQ1508834-04	101	100	100
Method Blank	JQ1508834-05	103	103	98

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-24A	J1509048-001	99
MW-24B	J1509048-002	99
MW-25A	J1509048-003	99
MW-25B	J1509048-004	98
MW-26A	J1509048-005	98
MW-26B	J1509048-006	98
Trip Blank-1	J1509048-007	99
Lab Control Sample	JQ1508834-03	99
Duplicate Lab Control Sample	JQ1508834-04	99
Method Blank	JQ1508834-05	98

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/12/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 471895

Analyte Name	Lab Control Sample JQ1508834-03			Duplicate Lab Control Sample JQ1508834-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	45.1	50.0	90	44.5	50.0	89	77-118	1	30
1,1,1-Trichloroethane (TCA)	47.3	50.0	95	46.0	50.0	92	70-122	3	30
1,1,2,2-Tetrachloroethane	50.8	50.0	102	50.3	50.0	101	66-135	<1	30
1,1,2-Trichloroethane	50.1	50.0	100	49.8	50.0	100	75-122	<1	30
1,1-Dichloroethane (1,1-DCA)	51.3	50.0	103	51.1	50.0	102	79-117	<1	30
1,1-Dichloroethene (1,1-DCE)	51.4	50.0	103	49.9	50.0	100	72-128	3	30
1,2,3-Trichloropropane	48.0	50.0	96	47.6	50.0	95	70-123	<1	30
1,2-Dibromo-3-chloropropane (DBCP)	39.9	50.0	80	40.6	50.0	81	60-122	2	30
1,2-Dibromoethane (EDB)	48.4	50.0	97	48.1	50.0	96	76-118	<1	30
1,2-Dichlorobenzene	49.8	50.0	100	49.6	50.0	99	81-115	<1	30
1,2-Dichloroethane	49.7	50.0	99	49.0	50.0	98	70-117	1	30
1,2-Dichloropropane	51.7	50.0	103	51.4	50.0	103	79-117	<1	30
1,4-Dichlorobenzene	49.7	50.0	99	49.5	50.0	99	82-115	<1	30
2-Butanone (MEK)	51.7	50.0	103	52.0	50.0	104	62-138	<1	30
2-Hexanone	53.0	50.0	106	52.7	50.0	105	74-127	<1	30
4-Methyl-2-pentanone (MIBK)	51.6	50.0	103	52.0	50.0	104	77-120	<1	30
Acetone	49.6	50.0	99	50.5	50.0	101	42-161	2	30
Acrylonitrile	53.5	50.0	107	54.1	50.0	108	63-132	1	30
Benzene	51.0	50.0	102	50.3	50.0	101	80-117	1	30
Bromochloromethane	48.9	50.0	98	48.2	50.0	96	78-118	2	30
Bromodichloromethane	46.4	50.0	93	45.8	50.0	92	75-118	1	30
Bromoform	39.1	50.0	78	39.0	50.0	78	63-121	<1	30
Bromomethane	39.8	50.0	80	38.5	50.0	77	31-153	3	30
Carbon Disulfide	49.8	50.0	100	48.3	50.0	96	72-128	3	30
Carbon Tetrachloride	42.0	50.0	84	40.7	50.0	81	67-124	3	30
Chlorobenzene	49.7	50.0	99	48.7	50.0	97	83-118	2	30
Chloroethane	54.6	50.0	109	52.1	50.0	104	68-132	5	30
Chloroform	50.4	50.0	101	49.5	50.0	99	77-116	2	30
Chloromethane	48.7	50.0	97	47.4	50.0	95	60-128	3	30
cis-1,2-Dichloroethene	51.8	50.0	104	51.5	50.0	103	78-117	<1	30
cis-1,3-Dichloropropene	46.5	50.0	93	45.8	50.0	92	80-119	2	30
Dibromochloromethane	44.0	50.0	88	43.2	50.0	86	74-121	2	30
Dibromomethane	48.0	50.0	96	48.4	50.0	97	76-117	<1	30
Ethylbenzene	49.0	50.0	98	47.4	50.0	95	82-119	3	30
Iodomethane	27.0	50.0	54	27.3	50.0	54	51-137	<1	30
Methylene Chloride	50.7	50.0	101	49.8	50.0	100	75-123	2	30
o-Xylene	47.9	50.0	96	47.1	50.0	94	80-119	2	30
Styrene	49.2	50.0	98	48.3	50.0	97	80-121	2	30
Tetrachloroethene (PCE)	46.0	50.0	92	44.7	50.0	89	75-126	3	30
Toluene	49.1	50.0	98	48.2	50.0	96	52-152	2	30
trans-1,2-Dichloroethene	52.2	50.0	104	51.1	50.0	102	75-121	2	30

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/12/15

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Units: ug/L
Basis: NA
Analysis Lot: 471895

Lab Control Sample
JQ1508834-03

Duplicate Lab Control Sample
JQ1508834-04

Analyte Name	Lab Control Sample JQ1508834-03			Duplicate Lab Control Sample JQ1508834-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,3-Dichloropropene	45.8	50.0	92	45.5	50.0	91	76-118	<1	30
trans-1,4-Dichloro-2-butene	45.1	50.0	90	44.8	50.0	90	10-198	<1	30
Trichloroethene (TCE)	48.0	50.0	96	46.3	50.0	93	78-122	4	30
Trichlorofluoromethane	48.9	50.0	98	46.8	50.0	94	58-134	4	30
Vinyl Acetate	48.5	50.0	97	48.4	50.0	97	36-169	<1	30
Vinyl Chloride	49.9	50.0	100	48.2	50.0	96	69-138	3	30

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-24A	J1509048-001	101
MW-24B	J1509048-002	99
MW-25A	J1509048-003	95
MW-25B	J1509048-004	102
MW-26A	J1509048-005	101
MW-26B	J1509048-006	105
Method Blank	JQ1509138-01	117
Lab Control Sample	JQ1509138-02	113
MW-24A	JQ1509138-03	88
MW-24A	JQ1509138-04	92

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Collected: 11/11/15
Date Received: 11/12/15
Date Analyzed: 11/24/15
Date Extracted: 11/23/15

Duplicate Matrix Spike Summary

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Sample Name: MW-24A
Lab Code: J1509048-001
Analysis Method: 8011
Prep Method: Method

Units: ug/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike JQ1509138-03			Duplicate Matrix Spike JQ1509138-04			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2-Dibromo-3-chloropropane (DBCP)	0.00710 U	0.211	0.253	83	0.222	0.247	90	65-135	5	20
1,2-Dibromoethane (EDB)	0.00710 U	0.229	0.253	91	0.238	0.247	96	65-135	4	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request:J1509048
Date Collected:11/11/15
Date Received:11/12/15
Date Analyzed:11/18/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-24B
Lab Code: J1509048-002

Units:ug/L
Basis:NA

Matrix Spike
J1509048-002MS

Duplicate Matrix Spike
J1509048-002DMS

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
		Result	Result	Amount	% Rec	Result	Amount				
Antimony, Total	6020	0.2	50.6	50.0	101	52.6	50.0	105	75-125	4	20
Arsenic, Total	6020	0.6	49.6	50.0	98	51.2	50.0	101	75-125	3	20
Barium, Total	6020	9.8	109	100	99	111	100	101	75-125	1	20
Beryllium, Total	6020	0.04	24.4	25.0	97	25.0	25.0	100	75-125	3	20
Cadmium, Total	6020	0.10	20.1	20.0	100	20.5	20.0	102	75-125	2	20
Chromium, Total	6020	1.1	51.2	50.0	100	52.7	50.0	103	75-125	3	20
Cobalt, Total	6020	0.2	51.3	50.0	102	52.1	50.0	104	75-125	2	20
Copper, Total	6020	0.3	50.0	50.0	100	51.0	50.0	102	75-125	2	20
Lead, Total	6020	0.36	24.6	25.0	97	25.2	25.0	99	75-125	3	20
Nickel, Total	6020	0.8	101	100	100	103	100	103	75-125	2	20
Selenium, Total	6020	1.1	95.2	100	95	95.7	100	96	75-125	<1	20
Silver, Total	6020	0.06	25.4	25.0	102	25.7	25.0	103	75-125	1	20
Thallium, Total	6020	0.05	9.71	10.0	97	9.99	10.0	100	75-125	3	20
Vanadium, Total	6020	1.6	98.3	100	97	102	100	100	75-125	4	20
Zinc, Total	6020	1.6	250	250	100	257	250	103	75-125	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/18/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509048-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	51.3	50.0	103	80-120
Arsenic, Total	6020	51.1	50.0	102	80-120
Barium, Total	6020	99.8	100	100	80-120
Beryllium, Total	6020	22.5	25.0	90	80-120
Cadmium, Total	6020	20.0	20.0	100	80-120
Chromium, Total	6020	50.2	50.0	100	80-120
Cobalt, Total	6020	50.5	50.0	101	80-120
Copper, Total	6020	49.3	50.0	99	80-120
Lead, Total	6020	24.7	25.0	99	80-120
Nickel, Total	6020	100	100	100	80-120
Selenium, Total	6020	99.9	100	100	80-120
Silver, Total	6020	25.0	25.0	100	80-120
Thallium, Total	6020	9.83	10.0	98	80-120
Vanadium, Total	6020	97.3	100	97	80-120
Zinc, Total	6020	251	250	100	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/16/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509048-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	5000	5000	100	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/16/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509048-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	25.3	25.0	101	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/18/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509048-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.25	1.25	100	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/16/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509048-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.964	1.00	96	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/12/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509048-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	23.9	25.0	96	90-110
Nitrate as Nitrogen	300.0	5.00	5.00	100	90-110
Nitrite as Nitrogen	300.0	4.84	5.00	97	90-110

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: JED SWDF
Sample Matrix: Water

Service Request: J1509048
Date Analyzed: 11/18/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509048-LCS

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Solids, Total Dissolved	SM 2540 C	296	300	99	85-115

Cooler Receipt Form

Client: PWS FL Service Request #: 21509048
 Project: JEDSWDF
 Cooler received on 11.12.15 and opened on 11.12.15 GB
 COURIER: ALS UPS FEDEX Client Other _____ Airbill # 781696636450

- 1 Were custody seals on outside of cooler? Yes No
 If yes, how many and where? #1 on lid other _____
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤6°C) 1.6
- 5 Thermometer ID T81
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present Ice Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
 Netting Vial Holder Bubble Wrap
 Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
 HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were all VOA vials free of air bubbles? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE 1 OF 1

SR# 09618
CAS Contract

Project Name: SED SWDF
Project Manager: Joe Terry
Company/Address: PWSFL
 11457 C.R. 672
 R. W. W. W., FL 33579
Phone #: 813-943-8633
FAX #:
Sample's Signature: Joe Terry, Don Thompson
Sample's Printed Name: Joe Terry, Don Thompson

Project Number: J1509048
Method Number: 5
Progressive Waste Services of Florida, Inc. JED SWDF

ANALYSIS REQUESTED (Include Method Number):

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	REMARKS/ALTERNATE DESCRIPTION
MW-24A		11-11-15	1040	GW	9	3	
MW-24B		1115			1		
MW-25A		1215			1		
MW-25B		1240			1		
MW-26A		1340			1		
MW-26B		1405		GW	9	3	
Trap Blank-1		11-11-15	0000	DE H ₂ O	1		

ANALYSIS REQUESTED (Include Method Number): 1 0 2 3 0
 B60
 BOIL
 POT Metals, Fe, Hg, Ni, NH₃, NO₃, TSS, Cu, Ni, Mn, Pb, Zn

REMARKS/ALTERNATE DESCRIPTION:

SPECIAL INSTRUCTIONS/COMMENTS: Cooler DS: 15315-3ED

TURNAROUND REQUIREMENTS:
 RUSH (SURCHARGES APPLY)
 STANDARD
 REQUESTED FAX DATE: _____
 REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS:
 I. Results Only
 II. Results + QC Summaries (CS, DUP, MS/MSD as required)
 III. Results + QC and Calibration Summaries
 IV. Data Validation Report with Raw Data
 V. Specialized Forms / Custom Report
 Edata: Yes ___ No ___

INVOICE INFORMATION:
 PO # _____
 BILL TO: _____

RECEIVED BY: [Signature] Date/Time: 11-11-15 1600

RELINQUISHED BY: [Signature] Date/Time: 11-11-15 1600

CUSTOMER RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

SEC CAP:



November 30, 2015

Service Request No:J1509087

Mike Kaiser
Progressive Waste Services of Florida, Inc.
1501 Omni Way
St Cloud, FL 34773

Laboratory Results for: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory November 13, 2015
For your reference, these analyses have been assigned our service request number **J1509087**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 4409. You may also contact me via email at mike.kimmel@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mike Kimmel
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-27A Lab ID: J1509087-001

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	7.5		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.440		0.007	0.010	mg/L	350.1
Iron, Total	680		3	100	ug/L	6010B
Sodium, Total	11.6		0.03	0.50	mg/L	6010B
Arsenic, Total	0.9	I	0.5	1.0	ug/L	6020
Barium, Total	8.7		0.5	2.0	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	1.9		0.2	1.0	ug/L	6020
Nickel, Total	0.8	I	0.5	2.0	ug/L	6020
Lead, Total	0.14	I	0.12	0.50	ug/L	6020
Vanadium, Total	3.3		0.3	2.0	ug/L	6020
m,p-Xylenes	0.91	I	0.31	2.0	ug/L	8260B
Toluene	1.2		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	66		10	10	mg/L	SM 2540 C

CLIENT ID: MW-27B Lab ID: J1509087-002

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	40.9		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.064		0.007	0.010	mg/L	350.1
Iron, Total	2060		3	100	ug/L	6010B
Sodium, Total	29.4		0.03	0.50	mg/L	6010B
Arsenic, Total	0.9	I	0.5	1.0	ug/L	6020
Barium, Total	92.2		0.5	2.0	ug/L	6020
Beryllium, Total	0.21	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.2	I	0.03	1.0	ug/L	6020
Chromium, Total	7.5		0.2	1.0	ug/L	6020
Copper, Total	2.1		0.3	1.0	ug/L	6020
Nickel, Total	1.3	I	0.5	2.0	ug/L	6020
Lead, Total	10.1		0.12	0.50	ug/L	6020
Antimony, Total	0.2	I	0.2	1.0	ug/L	6020
Selenium, Total	1.6	I	1.1	2.0	ug/L	6020
Thallium, Total	0.07	I	0.05	0.20	ug/L	6020
Vanadium, Total	10.3		0.3	2.0	ug/L	6020
Mercury, Total	0.03	I	0.02	0.10	ug/L	7470A
m,p-Xylenes	0.64	I	0.31	2.0	ug/L	8260B
Toluene	1.4		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	201		10	10	mg/L	SM 2540 C

CLIENT ID: MW-28A Lab ID: J1509087-003

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	21.0		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	3.56		0.007	0.010	mg/L	350.1



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-28A **Lab ID: J1509087-003**

Analyte	Results	Flag	MDL	PQL	Units	Method
Iron, Total	2390		3	100	ug/L	6010B
Sodium, Total	12.3		0.03	0.50	mg/L	6010B
Arsenic, Total	1.8		0.5	1.0	ug/L	6020
Barium, Total	7.2		0.5	2.0	ug/L	6020
Cobalt, Total	0.9	I	0.03	1.0	ug/L	6020
Chromium, Total	5.6		0.2	1.0	ug/L	6020
Copper, Total	0.7	I	0.3	1.0	ug/L	6020
Nickel, Total	3.4		0.5	2.0	ug/L	6020
Lead, Total	0.96		0.12	0.50	ug/L	6020
Vanadium, Total	5.8		0.3	2.0	ug/L	6020
Zinc, Total	10.7		1.6	5.0	ug/L	6020
Mercury, Total	0.03	I	0.02	0.10	ug/L	7470A
m,p-Xylenes	0.55	I	0.31	2.0	ug/L	8260B
Toluene	9.1		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	144		10	10	mg/L	SM 2540 C

CLIENT ID: MW-28B **Lab ID: J1509087-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	25.8		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.128		0.007	0.010	mg/L	350.1
Iron, Total	3840		3	100	ug/L	6010B
Sodium, Total	19.2		0.03	0.50	mg/L	6010B
Arsenic, Total	1.8		0.5	1.0	ug/L	6020
Barium, Total	108		0.5	2.0	ug/L	6020
Beryllium, Total	0.24	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.5	I	0.03	1.0	ug/L	6020
Chromium, Total	9.3		0.2	1.0	ug/L	6020
Copper, Total	1.7		0.3	1.0	ug/L	6020
Nickel, Total	2.1		0.5	2.0	ug/L	6020
Lead, Total	11.0		0.12	0.50	ug/L	6020
Selenium, Total	2.4		1.1	2.0	ug/L	6020
Thallium, Total	0.07	I	0.05	0.20	ug/L	6020
Vanadium, Total	16.0		0.3	2.0	ug/L	6020
Zinc, Total	8.2		1.6	5.0	ug/L	6020
Mercury, Total	0.04	I	0.02	0.10	ug/L	7470A
m,p-Xylenes	0.44	I	0.31	2.0	ug/L	8260B
Toluene	0.76	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	154		10	10	mg/L	SM 2540 C

CLIENT ID: MW-29A **Lab ID: J1509087-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	11.1		0.2	1.0	mg/L	300.0



SAMPLE DETECTION SUMMARY

CLIENT ID: MW-29A		Lab ID: J1509087-005				
Analyte	Results	Flag	MDL	PQL	Units	Method
Ammonia as Nitrogen	0.684		0.007	0.010	mg/L	350.1
Iron, Total	2820		3	100	ug/L	6010B
Sodium, Total	7.26		0.03	0.50	mg/L	6010B
Arsenic, Total	1.3		0.5	1.0	ug/L	6020
Barium, Total	29.3		0.5	2.0	ug/L	6020
Cobalt, Total	0.7	I	0.03	1.0	ug/L	6020
Chromium, Total	3.0		0.2	1.0	ug/L	6020
Nickel, Total	1.6	I	0.5	2.0	ug/L	6020
Lead, Total	0.92		0.12	0.50	ug/L	6020
Vanadium, Total	3.2		0.3	2.0	ug/L	6020
Zinc, Total	2.2	I	1.6	5.0	ug/L	6020
m,p-Xylenes	0.36	I	0.31	2.0	ug/L	8260B
Toluene	1.6		0.19	1.0	ug/L	8260B
Solids, Total Dissolved	143		10	10	mg/L	SM 2540 C

CLIENT ID: MW-29B		Lab ID: J1509087-006				
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	36.4		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.090		0.007	0.010	mg/L	350.1
Iron, Total	3450		3	100	ug/L	6010B
Sodium, Total	27.4		0.03	0.50	mg/L	6010B
Arsenic, Total	1.0		0.5	1.0	ug/L	6020
Barium, Total	101		0.5	2.0	ug/L	6020
Beryllium, Total	0.20	I	0.04	0.50	ug/L	6020
Cobalt, Total	0.6	I	0.03	1.0	ug/L	6020
Chromium, Total	1.1		0.2	1.0	ug/L	6020
Nickel, Total	1.0	I	0.5	2.0	ug/L	6020
Vanadium, Total	3.1		0.3	2.0	ug/L	6020
Zinc, Total	3.2	I	1.6	5.0	ug/L	6020
Toluene	0.63	I	0.19	1.0	ug/L	8260B
Solids, Total Dissolved	159		10	10	mg/L	SM 2540 C

CLIENT ID: Equipment Blank		Lab ID: J1509087-007				
Analyte	Results	Flag	MDL	PQL	Units	Method
Ammonia as Nitrogen	0.015		0.007	0.010	mg/L	350.1
Copper, Total	1.1		0.3	1.0	ug/L	6020
Nickel, Total	0.7	I	0.5	2.0	ug/L	6020
Chloroform	2.4		0.35	1.0	ug/L	8260B
Methylene Chloride	10		0.21	5.0	ug/L	8260B
Tetrachloroethene (PCE)	0.24	I	0.22	1.0	ug/L	8260B
Toluene	0.69	I	0.19	1.0	ug/L	8260B

SAMPLE DETECTION SUMMARY

CLIENT ID: Trip Blank		Lab ID: J1509087-008				
Analyte	Results	Flag	MDL	PQL	Units	Method
Methylene Chloride	0.22	I	0.21	5.0	ug/L	8260B
Toluene	0.92	I	0.19	1.0	ug/L	8260B

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Department of Defense	66206	9/20/2016
Florida Department of Health	E82502	6/30/2016
Georgia Department of Natural Resources	958	6/30/2016
Kentucky Division of Waste Management	63	6/30/2016
Louisiana Department of Environmental Quality	02086	6/30/2016
Maine Department of Health and Human Services	2015002	2/3/2017
North Carolina Department of Environment and Natural Resources	527	12/31/2015
Pennsylvania Department of Environmental Protection	68-04835	8/31/2016
South Carolina Department of Health and Environmental Control	96021001	6/30/2016
Texas Commision on Environmental Quality	T104704197-13-5	5/31/2016
Virginia Environmental Accreditation Program	460191	12/14/2015

Data Qualifiers

Florida-DEP

- ! Data deviates from historically established concentration ranges
- * Not reported due to interference
- ? Data is rejected and should not be used
- A Value reported is the arithmetic mean of two or more determinations
- B Results based upon colony counts outside the acceptable range.
- D Measurement was made in the field.
- E Extra samples were taken at composite stations
- H Value based on field kit determination; results may not be accurate.
- I The reported value is between the laboratory method detection limit and the laboratory PQL.
- J Estimated value.
- K Off scale low. The value is less than the lowest calibration standard.
- L Off scale high. The analyte is above the acceptable level of quantitation.
- M The MDL/MRL has been elevated because the analyte could not be accurately quantified.
- N Presumptive evidence of presence of material.
- O Sampled, but analysis lost or not performed
- Q Sample held beyond the acceptable holding time.
- R Significant rain in the past 48 hours (typically in excess of 0.5 inches)
- T Estimated value, less than the MDL
- U Indicates that the compound was analyzed for but not detected.
- V Indicates that the analyte was detected in both the sample and the associated method blank.
- X Insufficient individuals were present in the sample to achieve a minimum of 280 organisms for identification (Stream Condition Index Analysis only)
- Y The laboratory analysis was from an unpreserved or improperly preserved sample.
- Z Too many colonies were present, the numeric value represents the filtration volume

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544

Service Request:J1509087

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1509087-001	MW-27A	11/12/2015	1130
J1509087-002	MW-27B	11/12/2015	1140
J1509087-003	MW-28A	11/12/2015	1015
J1509087-004	MW-28B	11/12/2015	1045
J1509087-005	MW-29A	11/12/2015	0835
J1509087-006	MW-29B	11/12/2015	0850
J1509087-007	Equipment Blank	11/12/2015	1210
J1509087-008	Trip Blank	11/12/2015	0000

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27A
Lab Code: J1509087-001

Service Request: J1509087
Date Collected: 11/12/15 11:30
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 14:43	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 14:43	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 14:43	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 14:43	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 14:43	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 14:43	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 14:43	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 14:43	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 14:43	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 14:43	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 14:43	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 14:43	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 14:43	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 14:43	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 14:43	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 14:43	
Acetone	5.6 U	50	5.6	1	11/15/15 14:43	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 14:43	
Benzene	0.21 U	1.0	0.21	1	11/15/15 14:43	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 14:43	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 14:43	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 14:43	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 14:43	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 14:43	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 14:43	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 14:43	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 14:43	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 14:43	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 14:43	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 14:43	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 14:43	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 14:43	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 14:43	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 14:43	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 14:43	*
m,p-Xylenes	0.91 I	2.0	0.31	1	11/15/15 14:43	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 14:43	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 14:43	
Styrene	0.29 U	1.0	0.29	1	11/15/15 14:43	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 14:43	
Toluene	1.2	1.0	0.19	1	11/15/15 14:43	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 14:43	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 14:43	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27A
Lab Code: J1509087-001

Service Request: J1509087
Date Collected: 11/12/15 11:30
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 14:43	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 14:43	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 14:43	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 14:43	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 14:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	100	72 - 121	11/15/15 14:43	
4-Bromofluorobenzene	105	86 - 113	11/15/15 14:43	
Dibromofluoromethane	99	86 - 112	11/15/15 14:43	
Toluene-d8	99	88 - 115	11/15/15 14:43	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27A
Lab Code: J1509087-001

Service Request: J1509087
Date Collected: 11/12/15 11:30
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00705 U	0.0201	0.00705	1	11/24/15 06:11	11/23/15	
1,2-Dibromoethane (EDB)	0.00705 U	0.0201	0.00705	1	11/24/15 06:11	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	105	70 - 130	11/24/15 06:11	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27A
Lab Code: J1509087-001

Service Request: J1509087
Date Collected: 11/12/15 11:30
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 01:17	11/18/15	
Arsenic, Total	6020	0.9 I	ug/L	1.0	0.5	1	11/25/15 01:17	11/18/15	
Barium, Total	6020	8.7	ug/L	2.0	0.5	1	11/25/15 01:17	11/18/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 01:17	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 01:17	11/18/15	
Chromium, Total	6020	1.9	ug/L	1.0	0.2	1	11/25/15 01:17	11/18/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 01:17	11/18/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 01:17	11/18/15	
Iron, Total	6010B	680	ug/L	100	3	1	11/19/15 00:08	11/18/15	
Lead, Total	6020	0.14 I	ug/L	0.50	0.12	1	11/25/15 01:17	11/18/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:57	11/18/15	
Nickel, Total	6020	0.8 I	ug/L	2.0	0.5	1	11/25/15 01:17	11/18/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 01:17	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 01:17	11/18/15	
Sodium, Total	6010B	11.6	mg/L	0.50	0.03	1	11/19/15 00:08	11/18/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 01:17	11/18/15	
Vanadium, Total	6020	3.3	ug/L	2.0	0.3	1	11/25/15 01:17	11/18/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 01:17	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27A
Lab Code: J1509087-001

Service Request: J1509087
Date Collected: 11/12/15 11:30
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.440	mg/L	0.010	0.007	1	11/20/15 11:14	
Chloride	300.0	7.5	mg/L	1.0	0.2	1	11/13/15 21:11	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 21:11	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 21:11	
Solids, Total Dissolved	SM 2540 C	66	mg/L	10	10	1	11/18/15 17:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27B
Lab Code: J1509087-002

Service Request: J1509087
Date Collected: 11/12/15 11:40
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 15:05	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 15:05	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 15:05	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 15:05	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 15:05	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 15:05	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 15:05	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 15:05	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 15:05	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 15:05	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 15:05	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 15:05	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 15:05	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 15:05	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 15:05	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 15:05	
Acetone	5.6 U	50	5.6	1	11/15/15 15:05	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 15:05	
Benzene	0.21 U	1.0	0.21	1	11/15/15 15:05	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 15:05	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 15:05	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 15:05	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 15:05	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 15:05	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 15:05	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 15:05	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 15:05	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 15:05	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 15:05	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 15:05	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 15:05	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 15:05	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 15:05	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 15:05	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 15:05	*
m,p-Xylenes	0.64 I	2.0	0.31	1	11/15/15 15:05	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 15:05	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 15:05	
Styrene	0.29 U	1.0	0.29	1	11/15/15 15:05	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 15:05	
Toluene	1.4	1.0	0.19	1	11/15/15 15:05	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 15:05	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 15:05	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27B
Lab Code: J1509087-002

Service Request: J1509087
Date Collected: 11/12/15 11:40
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 15:05	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 15:05	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 15:05	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 15:05	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 15:05	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	72 - 121	11/15/15 15:05	
4-Bromofluorobenzene	104	86 - 113	11/15/15 15:05	
Dibromofluoromethane	100	86 - 112	11/15/15 15:05	
Toluene-d8	100	88 - 115	11/15/15 15:05	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27B
Lab Code: J1509087-002

Service Request: J1509087
Date Collected: 11/12/15 11:40
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0197	0.00700	1	11/24/15 06:37	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0197	0.00700	1	11/24/15 06:37	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	98	70 - 130	11/24/15 06:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27B
Lab Code: J1509087-002

Service Request: J1509087
Date Collected: 11/12/15 11:40
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 I	ug/L	1.0	0.2	1	11/25/15 01:23	11/18/15	
Arsenic, Total	6020	0.9 I	ug/L	1.0	0.5	1	11/25/15 01:23	11/18/15	
Barium, Total	6020	92.2	ug/L	2.0	0.5	1	11/25/15 01:23	11/18/15	
Beryllium, Total	6020	0.21 I	ug/L	0.50	0.04	1	11/25/15 01:23	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 01:23	11/18/15	
Chromium, Total	6020	7.5	ug/L	1.0	0.2	1	11/25/15 01:23	11/18/15	
Cobalt, Total	6020	0.2 I	ug/L	1.0	0.03	1	11/25/15 01:23	11/18/15	
Copper, Total	6020	2.1	ug/L	1.0	0.3	1	11/25/15 01:23	11/18/15	
Iron, Total	6010B	2060	ug/L	100	3	1	11/19/15 00:12	11/18/15	
Lead, Total	6020	10.1	ug/L	0.50	0.12	1	11/25/15 01:23	11/18/15	
Mercury, Total	7470A	0.03 I	ug/L	0.10	0.02	1	11/18/15 13:59	11/18/15	
Nickel, Total	6020	1.3 I	ug/L	2.0	0.5	1	11/25/15 01:23	11/18/15	
Selenium, Total	6020	1.6 I	ug/L	2.0	1.1	1	11/25/15 01:23	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 01:23	11/18/15	
Sodium, Total	6010B	29.4	mg/L	0.50	0.03	1	11/19/15 00:12	11/18/15	
Thallium, Total	6020	0.07 I	ug/L	0.20	0.05	1	11/25/15 01:23	11/18/15	
Vanadium, Total	6020	10.3	ug/L	2.0	0.3	1	11/25/15 01:23	11/18/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 01:23	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-27B
Lab Code: J1509087-002

Service Request: J1509087
Date Collected: 11/12/15 11:40
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.064	mg/L	0.010	0.007	1	11/20/15 11:15	
Chloride	300.0	40.9	mg/L	1.0	0.2	1	11/13/15 22:01	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 22:01	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 22:01	
Solids, Total Dissolved	SM 2540 C	201	mg/L	10	10	1	11/18/15 17:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28A
Lab Code: J1509087-003

Service Request: J1509087
Date Collected: 11/12/15 10:15
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 15:28	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 15:28	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 15:28	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 15:28	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 15:28	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 15:28	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 15:28	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 15:28	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 15:28	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 15:28	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 15:28	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 15:28	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 15:28	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 15:28	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 15:28	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 15:28	
Acetone	5.6 U	50	5.6	1	11/15/15 15:28	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 15:28	
Benzene	0.21 U	1.0	0.21	1	11/15/15 15:28	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 15:28	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 15:28	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 15:28	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 15:28	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 15:28	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 15:28	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 15:28	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 15:28	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 15:28	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 15:28	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 15:28	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 15:28	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 15:28	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 15:28	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 15:28	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 15:28	*
m,p-Xylenes	0.55 I	2.0	0.31	1	11/15/15 15:28	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 15:28	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 15:28	
Styrene	0.29 U	1.0	0.29	1	11/15/15 15:28	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 15:28	
Toluene	9.1	1.0	0.19	1	11/15/15 15:28	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 15:28	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 15:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28A
Lab Code: J1509087-003

Service Request: J1509087
Date Collected: 11/12/15 10:15
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 15:28	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 15:28	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 15:28	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 15:28	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 15:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/15/15 15:28	
4-Bromofluorobenzene	105	86 - 113	11/15/15 15:28	
Dibromofluoromethane	100	86 - 112	11/15/15 15:28	
Toluene-d8	100	88 - 115	11/15/15 15:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28A
Lab Code: J1509087-003

Service Request: J1509087
Date Collected: 11/12/15 10:15
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00716 U	0.0204	0.00716	1	11/24/15 07:02	11/23/15	
1,2-Dibromoethane (EDB)	0.00716 U	0.0204	0.00716	1	11/24/15 07:02	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	106	70 - 130	11/24/15 07:02	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28A
Lab Code: J1509087-003

Service Request: J1509087
Date Collected: 11/12/15 10:15
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 01:28	11/18/15	
Arsenic, Total	6020	1.8	ug/L	1.0	0.5	1	11/25/15 01:28	11/18/15	
Barium, Total	6020	7.2	ug/L	2.0	0.5	1	11/25/15 01:28	11/18/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 01:28	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 01:28	11/18/15	
Chromium, Total	6020	5.6	ug/L	1.0	0.2	1	11/25/15 01:28	11/18/15	
Cobalt, Total	6020	0.9 I	ug/L	1.0	0.03	1	11/25/15 01:28	11/18/15	
Copper, Total	6020	0.7 I	ug/L	1.0	0.3	1	11/25/15 01:28	11/18/15	
Iron, Total	6010B	2390	ug/L	100	3	1	11/19/15 00:17	11/18/15	
Lead, Total	6020	0.96	ug/L	0.50	0.12	1	11/25/15 01:28	11/18/15	
Mercury, Total	7470A	0.03 I	ug/L	0.10	0.02	1	11/18/15 14:00	11/18/15	
Nickel, Total	6020	3.4	ug/L	2.0	0.5	1	11/25/15 01:28	11/18/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 01:28	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 01:28	11/18/15	
Sodium, Total	6010B	12.3	mg/L	0.50	0.03	1	11/19/15 00:17	11/18/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 01:28	11/18/15	
Vanadium, Total	6020	5.8	ug/L	2.0	0.3	1	11/25/15 01:28	11/18/15	
Zinc, Total	6020	10.7	ug/L	5.0	1.6	1	11/25/15 01:28	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28A
Lab Code: J1509087-003

Service Request: J1509087
Date Collected: 11/12/15 10:15
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	3.56	mg/L	0.010	0.007	1	11/20/15 11:16	
Chloride	300.0	21.0	mg/L	1.0	0.2	1	11/13/15 22:17	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 22:17	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 22:17	
Solids, Total Dissolved	SM 2540 C	144	mg/L	10	10	1	11/18/15 17:37	

ALS Group USA, Corp.
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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28B
Lab Code: J1509087-004

Service Request: J1509087
Date Collected: 11/12/15 10:45
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 15:51	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 15:51	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 15:51	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 15:51	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 15:51	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 15:51	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 15:51	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 15:51	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 15:51	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 15:51	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 15:51	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 15:51	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 15:51	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 15:51	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 15:51	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 15:51	
Acetone	5.6 U	50	5.6	1	11/15/15 15:51	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 15:51	
Benzene	0.21 U	1.0	0.21	1	11/15/15 15:51	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 15:51	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 15:51	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 15:51	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 15:51	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 15:51	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 15:51	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 15:51	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 15:51	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 15:51	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 15:51	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 15:51	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 15:51	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 15:51	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 15:51	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 15:51	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 15:51	*
m,p-Xylenes	0.44 I	2.0	0.31	1	11/15/15 15:51	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 15:51	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 15:51	
Styrene	0.29 U	1.0	0.29	1	11/15/15 15:51	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 15:51	
Toluene	0.76 I	1.0	0.19	1	11/15/15 15:51	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 15:51	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 15:51	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28B
Lab Code: J1509087-004

Service Request: J1509087
Date Collected: 11/12/15 10:45
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 15:51	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 15:51	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 15:51	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 15:51	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 15:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	72 - 121	11/15/15 15:51	
4-Bromofluorobenzene	102	86 - 113	11/15/15 15:51	
Dibromofluoromethane	100	86 - 112	11/15/15 15:51	
Toluene-d8	99	88 - 115	11/15/15 15:51	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28B
Lab Code: J1509087-004

Service Request: J1509087
Date Collected: 11/12/15 10:45
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00702 U	0.0201	0.00702	1	11/24/15 07:28	11/23/15	
1,2-Dibromoethane (EDB)	0.00702 U	0.0201	0.00702	1	11/24/15 07:28	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	103	70 - 130	11/24/15 07:28	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28B
Lab Code: J1509087-004

Service Request: J1509087
Date Collected: 11/12/15 10:45
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 01:33	11/18/15	
Arsenic, Total	6020	1.8	ug/L	1.0	0.5	1	11/25/15 01:33	11/18/15	
Barium, Total	6020	108	ug/L	2.0	0.5	1	11/25/15 01:33	11/18/15	
Beryllium, Total	6020	0.24 I	ug/L	0.50	0.04	1	11/25/15 01:33	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 01:33	11/18/15	
Chromium, Total	6020	9.3	ug/L	1.0	0.2	1	11/25/15 01:33	11/18/15	
Cobalt, Total	6020	0.5 I	ug/L	1.0	0.03	1	11/25/15 01:33	11/18/15	
Copper, Total	6020	1.7	ug/L	1.0	0.3	1	11/25/15 01:33	11/18/15	
Iron, Total	6010B	3840	ug/L	100	3	1	11/19/15 00:22	11/18/15	
Lead, Total	6020	11.0	ug/L	0.50	0.12	1	11/25/15 01:33	11/18/15	
Mercury, Total	7470A	0.04 I	ug/L	0.10	0.02	1	11/18/15 14:01	11/18/15	
Nickel, Total	6020	2.1	ug/L	2.0	0.5	1	11/25/15 01:33	11/18/15	
Selenium, Total	6020	2.4	ug/L	2.0	1.1	1	11/25/15 01:33	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 01:33	11/18/15	
Sodium, Total	6010B	19.2	mg/L	0.50	0.03	1	11/19/15 00:22	11/18/15	
Thallium, Total	6020	0.07 I	ug/L	0.20	0.05	1	11/25/15 01:33	11/18/15	
Vanadium, Total	6020	16.0	ug/L	2.0	0.3	1	11/25/15 01:33	11/18/15	
Zinc, Total	6020	8.2	ug/L	5.0	1.6	1	11/25/15 01:33	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-28B
Lab Code: J1509087-004

Service Request: J1509087
Date Collected: 11/12/15 10:45
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.128	mg/L	0.010	0.007	1	11/20/15 11:17	
Chloride	300.0	25.8	mg/L	1.0	0.2	1	11/13/15 22:34	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 22:34	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 22:34	
Solids, Total Dissolved	SM 2540 C	154	mg/L	10	10	1	11/18/15 17:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29A
Lab Code: J1509087-005

Service Request: J1509087
Date Collected: 11/12/15 08:35
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 16:14	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 16:14	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 16:14	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 16:14	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 16:14	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 16:14	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 16:14	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 16:14	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 16:14	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 16:14	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 16:14	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 16:14	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 16:14	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 16:14	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 16:14	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 16:14	
Acetone	5.6 U	50	5.6	1	11/15/15 16:14	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 16:14	
Benzene	0.21 U	1.0	0.21	1	11/15/15 16:14	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 16:14	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 16:14	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 16:14	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 16:14	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 16:14	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 16:14	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 16:14	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 16:14	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 16:14	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 16:14	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 16:14	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 16:14	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 16:14	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 16:14	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 16:14	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 16:14	*
m,p-Xylenes	0.36 I	2.0	0.31	1	11/15/15 16:14	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 16:14	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 16:14	
Styrene	0.29 U	1.0	0.29	1	11/15/15 16:14	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 16:14	
Toluene	1.6	1.0	0.19	1	11/15/15 16:14	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 16:14	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 16:14	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29A
Lab Code: J1509087-005

Service Request: J1509087
Date Collected: 11/12/15 08:35
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 16:14	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 16:14	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 16:14	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 16:14	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 16:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	102	72 - 121	11/15/15 16:14	
4-Bromofluorobenzene	103	86 - 113	11/15/15 16:14	
Dibromofluoromethane	100	86 - 112	11/15/15 16:14	
Toluene-d8	99	88 - 115	11/15/15 16:14	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29A
Lab Code: J1509087-005

Service Request: J1509087
Date Collected: 11/12/15 08:35
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0199	0.00700	1	11/24/15 07:54	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	11/24/15 07:54	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	101	70 - 130	11/24/15 07:54	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29A
Lab Code: J1509087-005

Service Request: J1509087
Date Collected: 11/12/15 08:35
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 02:11	11/18/15	
Arsenic, Total	6020	1.3	ug/L	1.0	0.5	1	11/25/15 02:11	11/18/15	
Barium, Total	6020	29.3	ug/L	2.0	0.5	1	11/25/15 02:11	11/18/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 02:11	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 02:11	11/18/15	
Chromium, Total	6020	3.0	ug/L	1.0	0.2	1	11/25/15 02:11	11/18/15	
Cobalt, Total	6020	0.7 I	ug/L	1.0	0.03	1	11/25/15 02:11	11/18/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 02:11	11/18/15	
Iron, Total	6010B	2820	ug/L	100	3	1	11/19/15 00:26	11/18/15	
Lead, Total	6020	0.92	ug/L	0.50	0.12	1	11/25/15 02:11	11/18/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 14:10	11/18/15	
Nickel, Total	6020	1.6 I	ug/L	2.0	0.5	1	11/25/15 02:11	11/18/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 02:11	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 02:11	11/18/15	
Sodium, Total	6010B	7.26	mg/L	0.50	0.03	1	11/19/15 00:26	11/18/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 02:11	11/18/15	
Vanadium, Total	6020	3.2	ug/L	2.0	0.3	1	11/25/15 02:11	11/18/15	
Zinc, Total	6020	2.2 I	ug/L	5.0	1.6	1	11/25/15 02:11	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29A
Lab Code: J1509087-005

Service Request: J1509087
Date Collected: 11/12/15 08:35
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.684	mg/L	0.010	0.007	1	11/20/15 11:18	
Chloride	300.0	11.1	mg/L	1.0	0.2	1	11/13/15 22:50	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 22:50	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 22:50	
Solids, Total Dissolved	SM 2540 C	143	mg/L	10	10	1	11/18/15 17:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29B
Lab Code: J1509087-006

Service Request: J1509087
Date Collected: 11/12/15 08:50
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 16:37	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 16:37	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 16:37	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 16:37	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 16:37	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 16:37	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 16:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 16:37	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 16:37	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 16:37	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 16:37	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 16:37	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 16:37	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 16:37	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 16:37	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 16:37	
Acetone	5.6 U	50	5.6	1	11/15/15 16:37	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 16:37	
Benzene	0.21 U	1.0	0.21	1	11/15/15 16:37	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 16:37	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 16:37	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 16:37	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 16:37	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 16:37	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 16:37	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 16:37	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 16:37	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 16:37	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 16:37	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 16:37	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 16:37	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 16:37	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 16:37	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 16:37	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 16:37	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/15/15 16:37	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 16:37	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 16:37	
Styrene	0.29 U	1.0	0.29	1	11/15/15 16:37	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 16:37	
Toluene	0.63 I	1.0	0.19	1	11/15/15 16:37	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 16:37	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 16:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29B
Lab Code: J1509087-006

Service Request: J1509087
Date Collected: 11/12/15 08:50
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 16:37	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 16:37	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 16:37	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 16:37	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 16:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	103	72 - 121	11/15/15 16:37	
4-Bromofluorobenzene	103	86 - 113	11/15/15 16:37	
Dibromofluoromethane	100	86 - 112	11/15/15 16:37	
Toluene-d8	99	88 - 115	11/15/15 16:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29B
Lab Code: J1509087-006

Service Request: J1509087
Date Collected: 11/12/15 08:50
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00703 U	0.0201	0.00703	1	11/24/15 08:20	11/23/15	
1,2-Dibromoethane (EDB)	0.00703 U	0.0201	0.00703	1	11/24/15 08:20	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	103	70 - 130	11/24/15 08:20	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29B
Lab Code: J1509087-006

Service Request: J1509087
Date Collected: 11/12/15 08:50
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 02:16	11/18/15	
Arsenic, Total	6020	1.0	ug/L	1.0	0.5	1	11/25/15 02:16	11/18/15	
Barium, Total	6020	101	ug/L	2.0	0.5	1	11/25/15 02:16	11/18/15	
Beryllium, Total	6020	0.20 I	ug/L	0.50	0.04	1	11/25/15 02:16	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 02:16	11/18/15	
Chromium, Total	6020	1.1	ug/L	1.0	0.2	1	11/25/15 02:16	11/18/15	
Cobalt, Total	6020	0.6 I	ug/L	1.0	0.03	1	11/25/15 02:16	11/18/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 02:16	11/18/15	
Iron, Total	6010B	3450	ug/L	100	3	1	11/19/15 00:31	11/18/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 02:16	11/18/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 14:11	11/18/15	
Nickel, Total	6020	1.0 I	ug/L	2.0	0.5	1	11/25/15 02:16	11/18/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 02:16	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 02:16	11/18/15	
Sodium, Total	6010B	27.4	mg/L	0.50	0.03	1	11/19/15 00:31	11/18/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 02:16	11/18/15	
Vanadium, Total	6020	3.1	ug/L	2.0	0.3	1	11/25/15 02:16	11/18/15	
Zinc, Total	6020	3.2 I	ug/L	5.0	1.6	1	11/25/15 02:16	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: MW-29B
Lab Code: J1509087-006

Service Request: J1509087
Date Collected: 11/12/15 08:50
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.090	mg/L	0.010	0.007	1	11/20/15 11:19	
Chloride	300.0	36.4	mg/L	1.0	0.2	1	11/13/15 23:40	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 23:40	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 23:40	
Solids, Total Dissolved	SM 2540 C	159	mg/L	10	10	1	11/18/15 17:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: J1509087-007

Service Request: J1509087
Date Collected: 11/12/15 12:10
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 12:26	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 12:26	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 12:26	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 12:26	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 12:26	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 12:26	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 12:26	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 12:26	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 12:26	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 12:26	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 12:26	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 12:26	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 12:26	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 12:26	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 12:26	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 12:26	
Acetone	5.6 U	50	5.6	1	11/15/15 12:26	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 12:26	
Benzene	0.21 U	1.0	0.21	1	11/15/15 12:26	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 12:26	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 12:26	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 12:26	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 12:26	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 12:26	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 12:26	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 12:26	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 12:26	
Chloroform	2.4	1.0	0.35	1	11/15/15 12:26	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 12:26	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 12:26	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 12:26	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 12:26	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 12:26	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 12:26	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 12:26	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/15/15 12:26	
Methylene Chloride	10	5.0	0.21	1	11/15/15 12:26	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 12:26	
Styrene	0.29 U	1.0	0.29	1	11/15/15 12:26	
Tetrachloroethene (PCE)	0.24 I	1.0	0.22	1	11/15/15 12:26	
Toluene	0.69 I	1.0	0.19	1	11/15/15 12:26	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 12:26	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 12:26	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: J1509087-007

Service Request: J1509087
Date Collected: 11/12/15 12:10
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 12:26	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 12:26	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 12:26	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 12:26	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 12:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/15/15 12:26	
4-Bromofluorobenzene	104	86 - 113	11/15/15 12:26	
Dibromofluoromethane	98	86 - 112	11/15/15 12:26	
Toluene-d8	99	88 - 115	11/15/15 12:26	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: J1509087-007

Service Request: J1509087
Date Collected: 11/12/15 12:10
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/24/15 08:45	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/24/15 08:45	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	110	70 - 130	11/24/15 08:45	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: J1509087-007

Service Request: J1509087
Date Collected: 11/12/15 12:10
Date Received: 11/13/15 10:05

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 02:22	11/18/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 02:22	11/18/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 02:22	11/18/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 02:22	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 02:22	11/18/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 02:22	11/18/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/25/15 02:22	11/18/15	
Copper, Total	6020	1.1	ug/L	1.0	0.3	1	11/25/15 02:22	11/18/15	
Iron, Total	6010B	3 U	ug/L	100	3	1	11/19/15 00:47	11/18/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 02:22	11/18/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 14:16	11/18/15	
Nickel, Total	6020	0.7 I	ug/L	2.0	0.5	1	11/25/15 02:22	11/18/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 02:22	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 02:22	11/18/15	
Sodium, Total	6010B	0.03 U	mg/L	0.50	0.03	1	11/19/15 00:46	11/18/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 02:22	11/18/15	
Vanadium, Total	6020	0.3 U	ug/L	2.0	0.3	1	11/25/15 02:22	11/18/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 02:22	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Equipment Blank
Lab Code: J1509087-007

Service Request: J1509087
Date Collected: 11/12/15 12:10
Date Received: 11/13/15 10:05

Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.015	mg/L	0.010	0.007	1	11/20/15 11:20	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/13/15 23:56	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 23:56	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 23:56	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/18/15 17:37	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1509087-008

Service Request: J1509087
Date Collected: 11/12/15 00:00
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 12:48	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 12:48	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 12:48	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 12:48	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 12:48	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 12:48	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 12:48	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 12:48	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 12:48	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 12:48	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 12:48	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 12:48	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 12:48	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 12:48	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 12:48	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 12:48	
Acetone	5.6 U	50	5.6	1	11/15/15 12:48	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 12:48	
Benzene	0.21 U	1.0	0.21	1	11/15/15 12:48	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 12:48	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 12:48	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 12:48	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 12:48	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 12:48	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 12:48	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 12:48	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 12:48	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 12:48	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 12:48	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 12:48	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 12:48	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 12:48	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 12:48	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 12:48	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 12:48	*
m,p-Xylenes	0.31 U	2.0	0.31	1	11/15/15 12:48	
Methylene Chloride	0.22 I	5.0	0.21	1	11/15/15 12:48	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 12:48	
Styrene	0.29 U	1.0	0.29	1	11/15/15 12:48	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 12:48	
Toluene	0.92 I	1.0	0.19	1	11/15/15 12:48	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 12:48	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 12:48	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: J1509087-008

Service Request: J1509087
Date Collected: 11/12/15 00:00
Date Received: 11/13/15 10:05

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 12:48	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 12:48	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 12:48	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 12:48	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 12:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	72 - 121	11/15/15 12:48	
4-Bromofluorobenzene	105	86 - 113	11/15/15 12:48	
Dibromofluoromethane	97	86 - 112	11/15/15 12:48	
Toluene-d8	100	88 - 115	11/15/15 12:48	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1508881-05

Service Request: J1509087
Date Collected: NA
Date Received: NA

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	0.19 U	1.0	0.19	1	11/15/15 12:03	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	11/15/15 12:03	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	11/15/15 12:03	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	11/15/15 12:03	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	11/15/15 12:03	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	11/15/15 12:03	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	11/15/15 12:03	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	11/15/15 12:03	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	11/15/15 12:03	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	11/15/15 12:03	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	11/15/15 12:03	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	11/15/15 12:03	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	11/15/15 12:03	
2-Butanone (MEK)	3.8 U	10	3.8	1	11/15/15 12:03	
2-Hexanone	2.2 U	25	2.2	1	11/15/15 12:03	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	11/15/15 12:03	
Acetone	5.6 U	50	5.6	1	11/15/15 12:03	
Acrylonitrile	1.5 U	10	1.5	1	11/15/15 12:03	
Benzene	0.21 U	1.0	0.21	1	11/15/15 12:03	
Bromochloromethane	0.27 U	5.0	0.27	1	11/15/15 12:03	
Bromodichloromethane	0.22 U	1.0	0.22	1	11/15/15 12:03	
Bromoform	0.42 U	2.0	0.42	1	11/15/15 12:03	
Bromomethane	0.23 U	5.0	0.23	1	11/15/15 12:03	
Carbon Disulfide	2.4 U	10	2.4	1	11/15/15 12:03	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	11/15/15 12:03	
Chlorobenzene	0.16 U	1.0	0.16	1	11/15/15 12:03	
Chloroethane	0.52 U	5.0	0.52	1	11/15/15 12:03	
Chloroform	0.35 U	1.0	0.35	1	11/15/15 12:03	
Chloromethane	0.36 U	1.0	0.36	1	11/15/15 12:03	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	11/15/15 12:03	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	11/15/15 12:03	
Dibromochloromethane	0.21 U	1.0	0.21	1	11/15/15 12:03	
Dibromomethane	0.36 U	5.0	0.36	1	11/15/15 12:03	
Ethylbenzene	0.21 U	1.0	0.21	1	11/15/15 12:03	
Iodomethane	2.7 U	5.0	2.7	1	11/15/15 12:03	
m,p-Xylenes	0.31 U	2.0	0.31	1	11/15/15 12:03	
Methylene Chloride	0.21 U	5.0	0.21	1	11/15/15 12:03	
o-Xylene	0.14 U	1.0	0.14	1	11/15/15 12:03	
Styrene	0.29 U	1.0	0.29	1	11/15/15 12:03	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	11/15/15 12:03	
Toluene	0.19 U	1.0	0.19	1	11/15/15 12:03	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	11/15/15 12:03	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	11/15/15 12:03	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1508881-05

Service Request: J1509087
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Q
trans-1,4-Dichloro-2-butene	2.2 U	20	2.2	1	11/15/15 12:03	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	11/15/15 12:03	
Trichlorofluoromethane	0.24 U	20	0.24	1	11/15/15 12:03	
Vinyl Acetate	1.9 U	10	1.9	1	11/15/15 12:03	
Vinyl Chloride	0.36 U	1.0	0.36	1	11/15/15 12:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	72 - 121	11/15/15 12:03	
4-Bromofluorobenzene	105	86 - 113	11/15/15 12:03	
Dibromofluoromethane	97	86 - 112	11/15/15 12:03	
Toluene-d8	99	88 - 115	11/15/15 12:03	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: JQ1509138-01

Service Request: J1509087
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Prep Method: Method

Analyte Name	Result	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2-Dibromo-3-chloropropane (DBCP)	0.00700 U	0.0200	0.00700	1	11/24/15 00:38	11/23/15	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	11/24/15 00:38	11/23/15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	117	70 - 130	11/24/15 00:38	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509087-MB

Service Request: J1509087
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 01:07	11/18/15	
Arsenic, Total	6020	0.5 U	ug/L	1.0	0.5	1	11/25/15 01:07	11/18/15	
Barium, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 01:07	11/18/15	
Beryllium, Total	6020	0.04 U	ug/L	0.50	0.04	1	11/25/15 01:07	11/18/15	
Cadmium, Total	6020	0.10 U	ug/L	0.40	0.10	1	11/25/15 01:07	11/18/15	
Chromium, Total	6020	0.2 U	ug/L	1.0	0.2	1	11/25/15 01:07	11/18/15	
Cobalt, Total	6020	0.03 U	ug/L	1.0	0.03	1	11/25/15 01:07	11/18/15	
Copper, Total	6020	0.3 U	ug/L	1.0	0.3	1	11/25/15 01:07	11/18/15	
Iron, Total	6010B	3 U	ug/L	100	3	1	11/18/15 22:44	11/18/15	
Lead, Total	6020	0.12 U	ug/L	0.50	0.12	1	11/25/15 01:07	11/18/15	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	11/18/15 13:32	11/18/15	
Nickel, Total	6020	0.5 U	ug/L	2.0	0.5	1	11/25/15 01:07	11/18/15	
Selenium, Total	6020	1.1 U	ug/L	2.0	1.1	1	11/25/15 01:07	11/18/15	
Silver, Total	6020	0.06 U	ug/L	0.50	0.06	1	11/25/15 01:07	11/18/15	
Sodium, Total	6010B	0.08 I	mg/L	0.50	0.03	1	11/18/15 22:44	11/18/15	
Thallium, Total	6020	0.05 U	ug/L	0.20	0.05	1	11/25/15 01:07	11/18/15	
Vanadium, Total	6020	0.3 U	ug/L	2.0	0.3	1	11/25/15 01:07	11/18/15	
Zinc, Total	6020	1.6 U	ug/L	5.0	1.6	1	11/25/15 01:07	11/18/15	

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Analytical Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J1509087-MB

Service Request: J1509087
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	PQL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	11/20/15 10:50	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	11/13/15 18:43	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	11/13/15 18:43	
Nitrite as Nitrogen	300.0	0.02 U	mg/L	0.20	0.02	1	11/13/15 18:43	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	11/18/15 17:37	

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK)
Sample Matrix: Water

Service Request: J1509087

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
		72 - 121	86 - 113	86 - 112
MW-27A	J1509087-001	100	105	99
MW-27B	J1509087-002	101	104	100
MW-28A	J1509087-003	102	105	100
MW-28B	J1509087-004	103	102	100
MW-29A	J1509087-005	102	103	100
MW-29B	J1509087-006	103	103	100
Equipment Blank	J1509087-007	105	104	98
Trip Blank	J1509087-008	104	105	97
Lab Control Sample	JQ1508881-03	102	102	100
Duplicate Lab Control Sample	JQ1508881-04	102	102	100
Method Blank	JQ1508881-05	105	105	97

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK)
Sample Matrix: Water

Service Request: J1509087

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B

Sample Name	Lab Code	Toluene-d8
		88 - 115
MW-27A	J1509087-001	99
MW-27B	J1509087-002	100
MW-28A	J1509087-003	100
MW-28B	J1509087-004	99
MW-29A	J1509087-005	99
MW-29B	J1509087-006	99
Equipment Blank	J1509087-007	99
Trip Blank	J1509087-008	100
Lab Control Sample	JQ1508881-03	99
Duplicate Lab Control Sample	JQ1508881-04	98
Method Blank	JQ1508881-05	99

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc. **Service Request:** J1509087
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544 **Date Analyzed:** 11/15/15
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B **Units:** ug/L
Basis: NA
Analysis Lot: 472212

Analyte Name	Lab Control Sample JQ1508881-03			Duplicate Lab Control Sample JQ1508881-04			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1,2-Tetrachloroethane	46.4	50.0	93	45.6	50.0	91	77-118	2	30
1,1,1-Trichloroethane (TCA)	47.1	50.0	94	47.0	50.0	94	70-122	<1	30
1,1,2,2-Tetrachloroethane	53.1	50.0	106	53.2	50.0	106	66-135	<1	30
1,1,2-Trichloroethane	51.4	50.0	103	51.8	50.0	104	75-122	<1	30
1,1-Dichloroethane (1,1-DCA)	51.1	50.0	102	50.7	50.0	101	79-117	<1	30
1,1-Dichloroethene (1,1-DCE)	43.6	50.0	87	43.8	50.0	88	72-128	<1	30
1,2,3-Trichloropropane	50.1	50.0	100	51.2	50.0	102	70-123	2	30
1,2-Dibromo-3-chloropropane (DBCP)	43.2	50.0	86	44.9	50.0	90	60-122	4	30
1,2-Dibromoethane (EDB)	50.1	50.0	100	50.3	50.0	101	76-118	<1	30
1,2-Dichlorobenzene	50.6	50.0	101	50.5	50.0	101	81-115	<1	30
1,2-Dichloroethane	49.6	50.0	99	49.5	50.0	99	70-117	<1	30
1,2-Dichloropropane	50.8	50.0	102	51.1	50.0	102	79-117	<1	30
1,4-Dichlorobenzene	51.2	50.0	102	50.5	50.0	101	82-115	1	30
2-Butanone (MEK)	54.2	50.0	108	54.6	50.0	109	62-138	<1	30
2-Hexanone	56.7	50.0	113	56.9	50.0	114	74-127	<1	30
4-Methyl-2-pentanone (MIBK)	55.1	50.0	110	55.5	50.0	111	77-120	<1	30
Acetone	52.9	50.0	106	54.0	50.0	108	42-161	2	30
Acrylonitrile	56.8	50.0	114	57.4	50.0	115	63-132	1	30
Benzene	51.6	50.0	103	51.4	50.0	103	80-117	<1	30
Bromochloromethane	48.3	50.0	97	49.3	50.0	99	78-118	2	30
Bromodichloromethane	46.8	50.0	94	47.3	50.0	95	75-118	1	30
Bromoform	41.9	50.0	84	41.9	50.0	84	63-121	<1	30
Bromomethane	38.4	50.0	77	38.8	50.0	78	31-153	1	30
Carbon Disulfide	40.9	50.0	82	40.6	50.0	81	72-128	<1	30
Carbon Tetrachloride	42.4	50.0	85	41.6	50.0	83	67-124	2	30
Chlorobenzene	50.1	50.0	100	49.4	50.0	99	83-118	2	30
Chloroethane	52.8	50.0	106	54.9	50.0	110	68-132	4	30
Chloroform	51.7	50.0	103	51.4	50.0	103	77-116	<1	30
Chloromethane	49.4	50.0	99	50.0	50.0	100	60-128	1	30
cis-1,2-Dichloroethene	52.4	50.0	105	52.4	50.0	105	78-117	<1	30
cis-1,3-Dichloropropene	47.7	50.0	95	47.6	50.0	95	80-119	<1	30
Dibromochloromethane	45.4	50.0	91	45.7	50.0	91	74-121	<1	30
Dibromomethane	49.6	50.0	99	50.6	50.0	101	76-117	2	30
Ethylbenzene	49.3	50.0	99	48.9	50.0	98	82-119	<1	30
Iodomethane	20.5	50.0	41 *	21.6	50.0	43 *	51-137	5	30
m,p-Xylenes	100	100	100	98.6	100	99	79-122	1	30
Methylene Chloride	51.1	50.0	102	51.3	50.0	103	75-123	<1	30
o-Xylene	48.3	50.0	97	48.0	50.0	96	80-119	<1	30
Styrene	50.0	50.0	100	49.2	50.0	98	80-121	2	30
Tetrachloroethene (PCE)	46.5	50.0	93	45.9	50.0	92	75-126	1	30
Toluene	49.6	50.0	99	49.6	50.0	99	52-152	<1	30

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc. **Service Request:** J1509087
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544 **Date Analyzed:** 11/15/15
Sample Matrix: Water

Duplicate Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260B **Units:** ug/L
Basis: NA
Analysis Lot: 472212

Lab Control Sample
JQ1508881-03

Duplicate Lab Control Sample
JQ1508881-04

Analyte Name	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
trans-1,2-Dichloroethene	52.7	50.0	105	51.8	50.0	104	75-121	2	30
trans-1,3-Dichloropropene	48.6	50.0	97	48.2	50.0	96	76-118	<1	30
trans-1,4-Dichloro-2-butene	50.7	50.0	101	51.3	50.0	103	10-198	1	30
Trichloroethene (TCE)	48.2	50.0	96	47.4	50.0	95	78-122	2	30
Trichlorofluoromethane	50.0	50.0	100	49.2	50.0	98	58-134	2	30
Vinyl Acetate	49.3	50.0	99	49.4	50.0	99	36-169	<1	30
Vinyl Chloride	54.3	50.0	109	53.6	50.0	107	69-138	1	30

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK)
Sample Matrix: Water

Service Request: J1509087

SURROGATE RECOVERY SUMMARY

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction and Gas Chromatography

Analysis Method: 8011
Extraction Method: Method

Sample Name	Lab Code	1,1,1,2-Tetrachloroethane
		70 - 130
MW-27A	J1509087-001	105
MW-27B	J1509087-002	98
MW-28A	J1509087-003	106
MW-28B	J1509087-004	103
MW-29A	J1509087-005	101
MW-29B	J1509087-006	103
Equipment Blank	J1509087-007	110
Method Blank	JQ1509138-01	117
Lab Control Sample	JQ1509138-02	113

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Collected: 11/12/15
Date Received: 11/13/15
Date Analyzed: 11/18/15 - 11/25/15

**Duplicate Matrix Spike Summary
Inorganic Parameters**

Sample Name: MW-28B
Lab Code: J1509087-004

Units: ug/L
Basis: NA

**Matrix Spike
J1509087-004MS**

**Duplicate Matrix Spike
J1509087-004DMS**

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit	
		Result	Result	Amount	% Rec	Result	Amount				% Rec
Antimony, Total	6020	0.2	51.3	50.0	103	45.3	50.0	91	75-125	13	20
Arsenic, Total	6020	1.8	51.0	50.0	98	50.8	50.0	98	75-125	<1	20
Barium, Total	6020	108	218	100	110	212	100	105	75-125	3	20
Beryllium, Total	6020	0.24	23.4	25.0	93	23.2	25.0	92	75-125	<1	20
Cadmium, Total	6020	0.10	20.8	20.0	104	20.0	20.0	100	75-125	4	20
Chromium, Total	6020	9.3	65.2	50.0	112	64.6	50.0	111	75-125	1	20
Cobalt, Total	6020	0.5	50.1	50.0	99	49.2	50.0	97	75-125	2	20
Copper, Total	6020	1.7	50.8	50.0	98	49.1	50.0	95	75-125	3	20
Lead, Total	6020	11.0	38.2	25.0	109	37.7	25.0	107	75-125	1	20
Mercury, Total	7470A	0.04	1.3	1.25	99	1.3	1.25	102	75-125	2	20
Nickel, Total	6020	2.1	101	100	99	100	100	98	75-125	1	20
Selenium, Total	6020	2.4	44.7	100	42 *	41.8	100	39 *	75-125	7	20
Silver, Total	6020	0.06	25.4	25.0	102	24.8	25.0	99	75-125	3	20
Thallium, Total	6020	0.07	10.8	10.0	107	10.5	10.0	105	75-125	3	20
Vanadium, Total	6020	16.0	122	100	105	119	100	103	75-125	2	20
Zinc, Total	6020	8.2	243	250	94	240	250	93	75-125	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087

Date Analyzed: 11/25/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L

Basis:NA

Lab Control Sample
J1509087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total	6020	56.2	50.0	112	80-120
Arsenic, Total	6020	51.8	50.0	104	80-120
Barium, Total	6020	106	100	106	80-120
Beryllium, Total	6020	23.9	25.0	95	80-120
Cadmium, Total	6020	21.6	20.0	108	80-120
Chromium, Total	6020	52.2	50.0	104	80-120
Cobalt, Total	6020	52.7	50.0	105	80-120
Copper, Total	6020	52.7	50.0	105	80-120
Lead, Total	6020	26.2	25.0	105	80-120
Nickel, Total	6020	103	100	103	80-120
Selenium, Total	6020	107	100	106	80-120
Silver, Total	6020	26.7	25.0	107	80-120
Thallium, Total	6020	10.6	10.0	106	80-120
Vanadium, Total	6020	102	100	102	80-120
Zinc, Total	6020	259	250	103	80-120

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Analyzed: 11/18/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010B	5060	5000	101	80-120

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Analyzed: 11/18/15

Lab Control Sample Summary
Inorganic Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sodium, Total	6010B	26.0	25.0	104	80-120

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QA/QC Report

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Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Analyzed: 11/18/15

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
J1509087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury, Total	7470A	1.25	1.25	100	80-120

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Collected: 11/12/15
Date Received: 11/13/15
Date Analyzed: 11/13/15

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-29A
Lab Code: J1509087-005

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample J1509087-005DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Chloride	300.0	1.0	0.2	11.1	11.0	11.1	<1	20
Nitrate as Nitrogen	300.0	0.20	0.03	0.03 U	0.03 U	NC	NC	20

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request:J1509087
Date Collected:11/12/15
Date Received:11/13/15
Date Analyzed:11/13/15

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-29A
Lab Code: J1509087-005

Units:mg/L
Basis:NA

Matrix Spike
J1509087-005MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	11.1	34.1	25.0	92	90-110
Nitrate as Nitrogen	300.0	0.03	4.91	5.00	98	90-110

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Analyzed: 11/20/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	350.1	0.944	1.00	94	90-110

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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087
Date Analyzed: 11/13/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
J1509087-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	300.0	24.0	25.0	96	90-110
Nitrate as Nitrogen	300.0	5.03	5.00	101	90-110
Nitrite as Nitrogen	300.0	4.87	5.00	97	90-110

ALS Group USA, Corp.
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QA/QC Report

Client: Progressive Waste Solutions of FL, Inc.
Project: J.E.D LANDFILL (F/K/A OAK HAMMOCK DISPOSAL)/89544
Sample Matrix: Water

Service Request: J1509087

Date Analyzed: 11/18/15

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

J1509087-LCS

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Solids, Total Dissolved	SM 2540 C	296	300	99	85-115

Cooler Receipt Form

Client: PLUSEL Service Request #: J1509087
 Project: JEDSWDF
 Cooler received on 11/13/15 and opened on 11/13/15 by JA
 COURIER: ALS UPS FEDEX Client Other _____ Airbill # 8062 8712 5505

- 1 Were custody seals on outside of cooler? Yes No
 If yes, how many and where? #: 1 on lid other _____
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) 5.4
- 5 Thermometer ID T81
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present Ice Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
 Netting Vial Holder Bubble Wrap
 Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
 Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were all VOA vials free of air bubbles? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: _____ Date: _____

