

June 27, 2014

F. Thomas Lubozynski, P.E.  
Waste & Air Resource Programs Administrator  
Florida Department of Environmental Protection  
Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

**Subject:** Groundwater Contamination Assessment  
Quarter 3 Evaluation Monitoring Report  
J.E.D. Solid Waste Management Facility  
Osceola County, Florida  
Permit Nos. 0199726-023-SC-MM and SO49-0199726-022

**Dear Mr. Lubozynski:**

On behalf of Omni Waste of Osceola County, LLC (Omni), HDR is submitting this sampling report for the three evaluation monitoring wells CW-1A, CW-2A and CW-3A installed in December 2013 at the J.E.D. Solid Waste Management Facility (facility). This is the third of four quarterly evaluation monitoring reports, as required by the Work Plan submitted on October 31, 2013. The wells were installed to address volatile organic compound (VOC) detections in groundwater samples collected from select groundwater monitoring wells at the facility. Routine groundwater monitoring has at times detected Benzene in groundwater at levels slightly above the Primary Drinking Water Standard (PDWS) in samples collected from eleven shallow groundwater monitoring wells and vinyl chloride from three shallow groundwater monitoring wells located along the disposal boundary of the northern portion of the landfill. To evaluate these detections, Omni conducted several investigations which indicated the probable source of these VOCs was landfill gas migration beyond the lined disposal boundary.

Omni subsequently implemented a Soil Vapor Extraction (SVE) pilot test study in March 2013. As discussed in a July 23, 2013 meeting with the Florida Department of Environmental Protection (Department) (and subsequent July 30, 2013 letter from Omni), based on the groundwater quality data collected since installation of the SVE pilot system Omni recommended that the SVE pilot test study be discontinued and instead focus continued efforts on proactively expanding the Landfill Gas Collection Control System (GCCS) within the landfill disposal footprint. Additionally, as summarized in an August 6, 2013 letter to the Department, Omni prepared a contamination evaluation Work Plan to delineate the extent of the impacts and predict the likelihood that water quality standards will be violated outside the zone of discharge (ZOD) (if any) and evaluate potential preventative methods. The Work Plan outlined the installation procedures for three new temporary delineation wells CW-1A, CW-2A and CW-3A. The three evaluation monitoring wells are shown in Attachment 1, Figure 1.

## Well Sampling and Analysis

The Work Plan requires four quarterly compliance well sampling events/ reports as follows:

Quarter 1 – December 2013 (complete)

Quarter 2 – February 2014 /March 2014 (complete)

Quarter 3 – May 2014/June 2014 (herein)

Quarter 4 – August 2014/September 2014

The samples collected in Quarter 1 were analyzed for parameters required for an initial sampling event as listed in Chapter 62-701.510(7)(a) and (c).

The required sample parameters collected for Quarters 2, 3, and 4 include those listed in Chapter 62-701.510(7)(a) only. The parameter lists have been provided below for reference.

### Chapter 62-701.510(7)(a)

#### Field Parameters

Static water level before purge  
Specific conductivity  
pH  
Dissolved Oxygen  
Turbidity  
Temperature  
Colors and sheens by observation  
ALS Environmental

#### Laboratory Parameters

Total ammonia – N  
Chlorides  
Iron  
Mercury  
Nitrate  
Sodium  
Total dissolved solids (TDS)  
Those parameters listed in 40 CFR Part 258  
Appendix I

### Chapter 62-701.510(7)(c)

Those parameters listed in 40 CFR Part 258 Appendix II.

## Results

The lab analysis results for the Quarter 3 sampling event are provided in Attachment 2 – Laboratory and Field Data. The detected parameters have been listed in Tables 1 – CW-1A, Table 2 – CW-2A, and Table 3 – CW-3A below.

**Table 1 – Summary of Parameters detected during Lab Analysis CW-1A**

Parameters	CW-1A Result				MCL	MDL	PQL	Units
	Q1	Q2	Q3	Q4				
Chloride	21.7	21.2	17.6		250**	0.11	0.5	mg/L
Ammonia as Nitrogen	1.05	0.783	0.575		2.8***	0.007	0.01	mg/L
Iron, Total Recoverable	<b>11,900</b>	<b>9,870</b>	<b>6,390</b>		300**	3	100	ug/L
Sodium, Total Recoverable	20.4	17.1	15.1		160*	0.03	0.5	mg/L
Arsenic, Total Recoverable	<b>278</b>	<b>166</b>	<b>77.6</b>		10*	0.5	1	ug/L
Barium, Total Recoverable	55.2	46.4	33.3		2000*	0.5	2	ug/L
Beryllium, Total Recoverable	0.15 l	0.06 l	0.05 l		4*	0.04	0.5	ug/L
Cadmium, Total Recoverable	0.87	ND	ND		5*	0.1	0.4	ug/L
Cobalt, Total Recoverable	3.2	2.2	1.4		420	0.03	1	ug/L
Chromium, Total Recoverable	11.1	6.6	3.2		100*	0.2	1	ug/L
Copper, Total Recoverable	0.8 l	ND	ND		1000**	0.3	1	ug/L
Nickel, Total Recoverable	6.1	1 l	0.8		100*	0.5	2	ug/L
Lead, Total Recoverable	1.05	0.16 l	0.27		15*	0.12	0.5	ug/L
Selenium, Total Recoverable	2.8	ND	ND		50*	1.1	2	ug/L
Thallium, Total Recoverable	0.05 l	ND	ND		2*	0.05	0.2	ug/L
Vanadium, Total Recoverable	12.3	3.5	2.9		49***	0.3	2	ug/L
Zinc, Total Recoverable	2.8 l	4.9 l	5.2		5000**	1.6	5	ug/L
Toluene	0.23 l	ND	ND		1000**	0.19	1	ug/L
Solids, Total Dissolved	445	268	237		500**	10	10	mg/L

**Notes:**

ND = Not Detect

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

I = The reported value is between the laboratory method detection limit and the laboratory PQL.

MCL = Maximum Contaminant Level (PDWS\*, SDWS\*\*, GCTL\*\*\*)

PDWS = Primary Drinking Water Standard

SDWS = Secondary Drinking Water Standard

GCTL = Groundwater Cleanup Target Level

**Table 2 – Summary of Parameters detected during Lab Analysis CW-2A**

Parameters	CW-2A Result				MCL	MDL	PQL	Units
	Q1	Q2	Q3	Q4				
Chloride	76.3	92.1	106		250**	0.11	0.5	mg/L
Ammonia as Nitrogen	<b>6.72</b>	<b>6.83</b>	<b>7.19</b>		2.8***	0.007	0.01	mg/L
Iron, Total Recoverable	<b>8,070</b>	<b>4,050</b>	<b>3,270</b>		300**	3	100	ug/L
Sodium, Total Recoverable	50.4	59.4	66.8		160*	0.03	0.5	mg/L
Arsenic, Total Recoverable	1 I	2.2	1.3		10*	0.5	1	ug/L
Barium, Total Recoverable	54	54.1	54.2		2000*	0.5	2	ug/L
Beryllium, Total Recoverable	0.54	0.38	0.36		4*	0.04	0.5	ug/L
Cobalt, Total Recoverable	2.6	1.8	1.4		420	0.03	1	ug/L
Chromium, Total Recoverable	1.5	1.9	1.6		100*	0.2	1	ug/L
Copper, Total Recoverable	0.4 I	0.4	0.3		1000**	0.3	1	ug/L
Nickel, Total Recoverable	2.5	2.9	2.5		100*	0.5	2	ug/L
Vanadium, Total Recoverable	9.2	8.6	7.8		49***	0.3	2	ug/L
Zinc, Total Recoverable	3.7 I	3.8	4.1		5000**	1.6	5	ug/L
Mercury, Total	0.03 I	ND	ND		2*	0.02	0.1	ug/L
Solids, Total Dissolved	<b>918</b>	<b>952</b>	<b>958</b>		500**	10	10	mg/L

**Notes:**

ND = Not Detect

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

I = The reported value is between the laboratory method detection limit and the laboratory PQL.

MCL = Maximum Contaminant Level (PDWS\*, SDWS\*\*, GCTL\*\*\*)

PDWS = Primary Drinking Water Standard

SDWS = Secondary Drinking Water Standard

GCTL = Groundwater Cleanup Target Level

**Table 3 – Summary of Parameters detected during Lab Analysis CW-3A**

Parameters	CW-3A Result				MCL	MDL	PQL	Units
	Q1	Q2	Q3	Q4				
Chloride	62	63	59.6		250**	0.11	0.5	mg/L
Ammonia as Nitrogen	<b>11.1</b>	<b>8.17</b>	<b>7.8</b>		2.8***	0.007	0.01	mg/L
Iron, Total Recoverable	<b>126,000</b>	<b>115,000</b>	<b>123,000</b>		300**	3	100	ug/L
Sodium, Total Recoverable	65.5	68.5	57.9		160*	0.03	0.5	mg/L
Arsenic, Total Recoverable	2.1	2	1.7		10*	0.5	1	ug/L
Barium, Total Recoverable	173	108	121		2000*	0.5	2	ug/L
Beryllium, Total Recoverable	0.63	0.67	0.61		4*	0.04	0.5	ug/L
Cobalt, Total Recoverable	12.9	13	12.6		420	0.03	1	ug/L
Chromium, Total Recoverable	12.5	8.3	9.3		100*	0.2	1	ug/L
Copper, Total Recoverable	0.6 l	.4 l	0.5		1000**	0.3	1	ug/L
Nickel, Total Recoverable	3.1	2.1	2.5		100*	0.5	2	ug/L
Lead, Total Recoverable	2.08	ND	ND		15*	0.12	0.5	ug/L
Selenium, Total Recoverable	1.8 l	ND	ND		50*	1.1	2	ug/L
Vanadium, Total Recoverable	15	11.3	10.9		49***	0.3	2	ug/L
Zinc, Total Recoverable	3.7 l	6.5	4.5		5000**	1.6	5	ug/L
Mercury, Total	0.05 l	ND	ND		2*	0.02	0.1	ug/L
Solids, Total Dissolved	<b>1,190</b>	<b>1,230</b>	<b>1,360</b>		500**	10	10	mg/L

**Notes:**

ND = Not Detect

MDL = Method Detection Limit

PQL = Practical Quantitation Limit

l = The reported value is between the laboratory method detection limit and the laboratory PQL.

MCL = Maximum Contaminant Level (PDWS\*, SDWS\*\*, GCTL\*\*\*)

PDWS = Primary Drinking Water Standard

SDWS = Secondary Drinking Water Standard

GCTL = Groundwater Cleanup Target Level

VOCs were not detected during Quarter 1, Quarter 2 or Quarter 3, with the exception of very low level toluene in CW-1A during Quarter 1. The Quarter 1 toluene concentration (0.23 ug/L) was between the MDL and the PQL and well below the SDWS of 1000 ug/L, and toluene was not confirmed during Quarter 2 or Quarter 3. Ammonia (N), iron, TDS, and arsenic have been the only parameters detected above groundwater standards. Each of these parameters has been historically detected in the "A" Zone wells, and both arsenic and TDS levels are frequently associated with high iron concentrations. Iron exceeded the SDWS in each of the three evaluation monitoring wells, however with the exception of CW-3A, levels were within the historical range. Iron was reported in CW-3A at 126,000 ug/L (Quarter 1), at 115,000 ug/L (Quarter 2), and 123,000 ug/L (Quarter 3). Laboratory error was suspected in the Quarter 1 analysis, but the Quarter 2 and Quarter 3 result have confirmed high iron concentration. High turbidity and low Oxidation/Reduction Potential (ORP) can also result in high levels of dissolved iron, but the reported levels of turbidity and ORP in CW-3A do not support that conclusion. Turbidity in CW-3A in Quarter 1 (32 to 35 NTU) was higher than the other evaluation monitoring wells, but in Quarters 2 and 3, turbidity was very low (<0.4 and 1.1 NTU, respectively) as comparable to the other wells. The ORP level in CW-3A was also comparable to levels in CW-1A and CW-2A. ORP ranged from 58 to 61.1 mV in CW-1A, 76 to 77.7 mV in CW-2A, and 67 to 72.5 mV in CW-3A. ORP levels during Quarter 3 were higher in all three wells than in previous events.

Arsenic was also reported above the PDWS of 10 ug/L in CW-1A at 278 ug/L in Quarter 1, at 166 ug/L in Quarter 2, and at 77.6 ug/L in Quarter 3. CW-1A was installed at a location west of the landfill to delineate MW-3A, however MW-3A rarely reports arsenic levels above 2 ug/L, and CW-2A and CW-3A reported arsenic at < 2.2 ug/L in both Quarter 1 and Quarter 2. The Quarter 2 and Quarter 3 samples confirmed arsenic above the PDWS. Based on low arsenic levels in the detection wells, there may be a secondary source, such as the nearby electrical power pole that may have been treated with an arsenic compound such as CCA. Although the arsenic level in CW-1A was again reported above the PDWS, levels have decreased by an order of magnitude (from 278 ug/L to 77.6 ug/L) since Quarter 1. The decreasing trend in CW-1A combined with the fact that arsenic in groundwater has not been reported at similar levels in other "A" Zone wells may indicate that arsenic was introduced from a surface source (e.g. CCA treated power pole), and there is no longer a connection.

Based on historical detections, arsenic, which has a geochemical association with iron, is frequently detected in "A" Zone monitoring wells. Arsenic is occasionally detected above the MCL, but when reported above the MCL the range is typically between 10 and 20 ug/L in two wells (MW-11A and MW-13A) on the east side of the landfill. However, arsenic was barely detected in the wells downgradient of MW-11A and MW-13A. TDS levels reported exceeding the SDWS in CW-2A and CW-3A and just below the MCL in CW-1A are attributable to the high iron levels in these wells.

In summary, the three evaluation monitoring wells were installed to delineate VOCs (primarily benzene and vinyl chloride) that have been reported from samples collected in the shallow ("A" Zone) wells. Neither of these VOCs has been detected in the evaluation monitoring wells. Additionally, chloride, which is an excellent conservative indicator of leachate in groundwater, was detected at low levels and well balanced with sodium. These findings support the suggestion that the VOCs which have been detected above groundwater standards in upgradient wells were likely associated with landfill gas.

## Recommendations

The Work Plan submitted October 31, 2013 required installing the three evaluation monitoring wells described herein. The Work Plan requires sampling and analyzing groundwater from the three wells for the purpose of delineating VOCs, primarily benzene and vinyl chloride, within the landfill compliance zone. This report is the third of four quarterly reports required for submittal during the evaluation monitoring described in the Work Plan. Based on the results of the first, second, and third quarterly sampling events, it is recommended to continue as outlined in the Work Plan. The Quarter 4 sampling event will be scheduled in August/September 2014, and the FDEP will be notified at least 14 days prior to sampling. The wells will be sampled for those parameters listed in Chapter 62-701.510(7)(a) during the next quarterly sampling event (Quarter 4). It is also recommended to sample iron and arsenic during Quarter 4 since both parameters were confirmed in the Quarter 2 and Quarter 3 sampling events. It is also recommended that groundwater elevations be taken in all "A" zone wells to produce groundwater contour maps for each quarterly event that does not coincide with a semi-annual sampling event. The "A" zone groundwater contour map for Quarter 3 is included as Attachment 1, Figure 2.

## Closing

HDR has prepared this report on behalf of Omni to maintain compliance with the Florida Water Quality Regulations. Thank you in advance for your review. If you have any questions or comments, please contact me at (904) 598-8900 or Mr. Mike Kaiser at (904) 673-0446.

Sincerely,



John S. Catches, P.G.  
Sr. Project Manager

Attachments

Cc: Mike Kaiser, Progressive Waste Solutions, Inc.

# 1

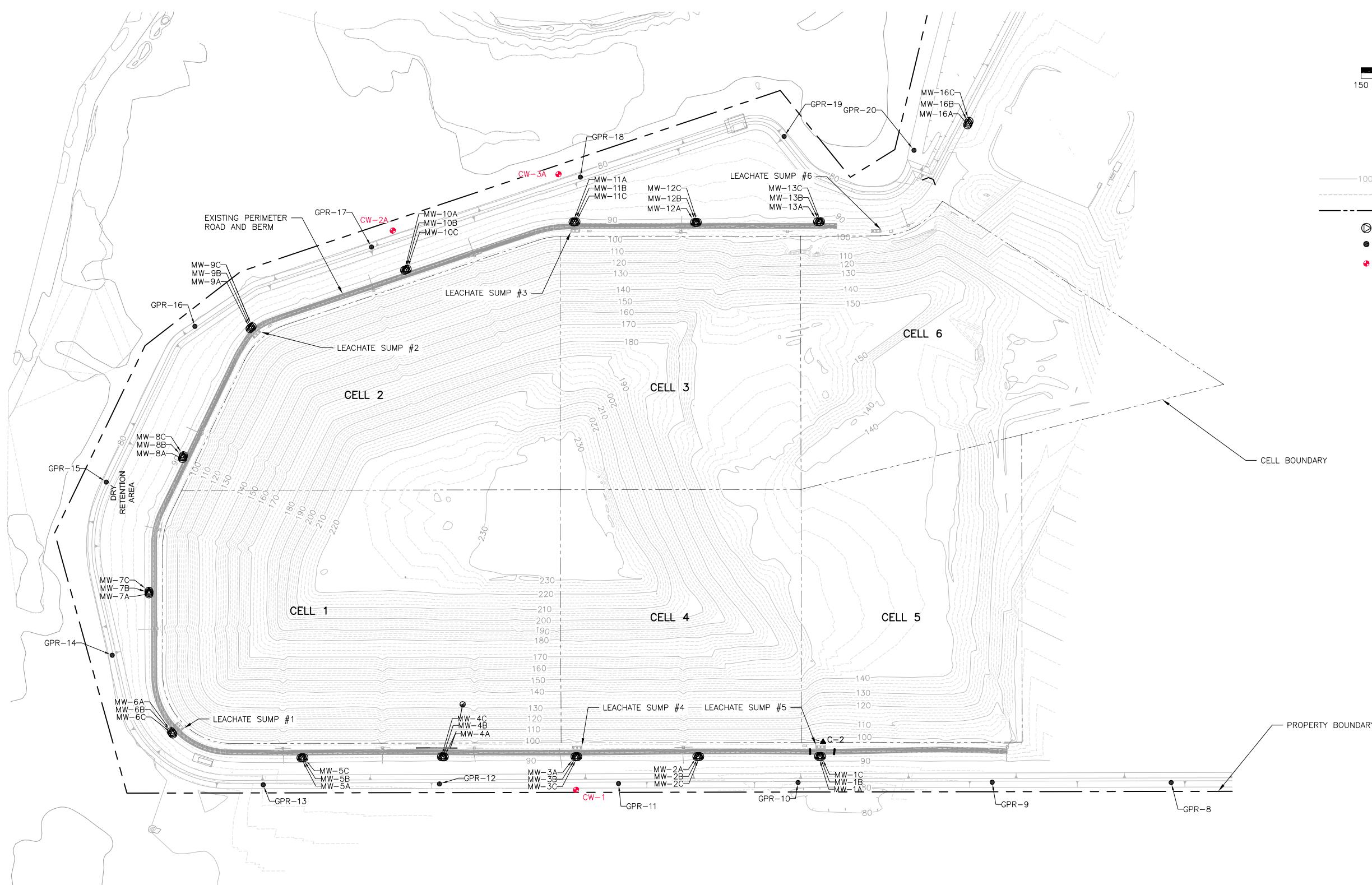
## Attachment One FIGURES AND WATER TABLE ELEVATIONS



SCALE IN FEET  
150 75 0 150 300

#### LEGEND

- 100 — EXISTING CONTOURS (MAJOR)
- - - EXISTING CONTOURS (MINOR)
- — — EXISTING CELL BOUNDARY
- (MW-1A) EXISTING MONITORING WELLS
- GPR-1 PERIMETER GAS MONITORING PROBE
- CW-1 PROPOSED COMPLIANCE MONITORING WELL



HDR  
Engineering, Inc.  
200 W Forsyth St  
Jacksonville, FL 32202

ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	B. STONE, P.E.
DESIGN BY	C. KOENIG, P.E.
DESIGN BY	
CHECKED BY	B. STONE, P.E.
DRAWN BY	C. BREWER
PROJECT NUMBER	174075



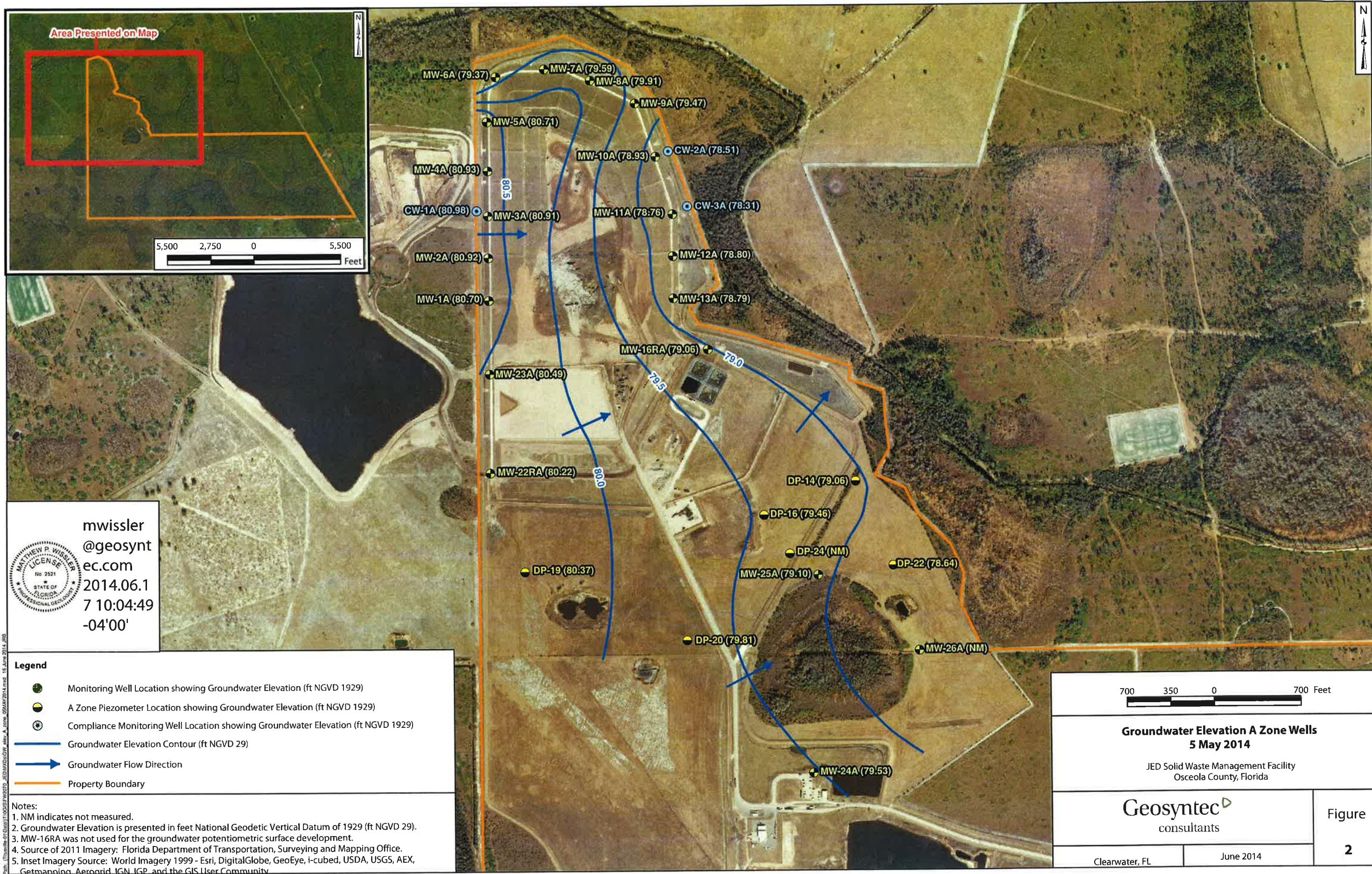
J.E.D. Solid Waste Management Facility  
Omni Waste of Osceola County, LLC

1501 Omni Way St. Cloud, FL 34773  
(407) 891-3720

2013 J.E.D. LANDFILL  
GROUNDWATER ASSESSMENT STUDY PLAN

0	1"	2"	FILENAME	00C-01.dwg
SHEET			SCALE	AS SHOWN

Figure 1



**GROUNDWATER LEVEL MEASUREMENTS**  
**QUARTERLY COMPLIANCE WELL SAMPLING EVENT**  
**J.E.D. SOLID WASTE MANAGEMENT FACILITY**

<u>Site Name:</u> JED Solid Waste Management Facility <u>Location:</u> Osceola County, Florida <u>Date:</u> 5-May-2014				
Well ID	Time	TOC Elevation	Depth to Water (ft)	GW Elevation
CW-1A	15:40	84.53	3.55	80.98
CW-2A	14:40	82.81	4.30	78.51
CW-3A	13:35	81.89	3.58	78.31
DP-19	10:37	84.34	3.97	80.37
DP-20	10:30	83.07	3.26	79.81
DP-22	10:00	81.00	2.36	78.64
MW-1A	11:00	95.12	14.42	80.70
MW-2A	11:10	95.21	14.29	80.92
MW-3A	11:15	94.64	13.73	80.91
MW-4A	11:20	95.48	14.55	80.93
MW-5A	11:25	95.32	14.61	80.71
MW-6A	11:30	94.72	15.35	79.37
MW-7A	11:35	95.48	15.89	79.59
MW-8A	11:45	94.67	14.76	79.91
MW-9A	11:50	94.66	15.19	79.47
MW-10A	12:00	96.25	17.32	78.93
MW-11A	12:05	93.56	14.80	78.76
MW-12A	12:15	95.10	16.30	78.80
MW-13A	12:20	95.19	16.40	78.79
MW-16RA	12:25	95.01	15.95	79.06
MW-22RA	10:45	95.00	14.78	80.22
MW-23A	10:55	97.90	17.41	80.49
MW-24A	9:12	86.97	7.44	79.53

# 2

## Attachment Two LABORATORY AND FIELD DATA



May 27, 2014

Service Request No:J1403216

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

### Laboratory Results for: JED Compliance Wells

Dear Mike,

Enclosed are the results of the sample(s) submitted to our laboratory May 06, 2014  
For your reference, these analyses have been assigned our service request number **J1403216**.

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 [Craig.Myers@alsglobal.com](mailto:Craig.Myers@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

A handwritten signature in black ink, appearing to read "Craig Myers".

Craig Myers  
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: CW-1A	Lab ID: J1403216-001					
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	17.6		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	0.575		0.007	0.010	mg/L	350.1
Iron, Total Recoverable	6390		3	100	ug/L	6010B
Sodium, Total Recoverable	15.1		0.03	0.50	mg/L	6010B
Arsenic, Total Recoverable	77.6		0.5	1.0	ug/L	6020
Barium, Total Recoverable	33.3		0.5	2.0	ug/L	6020
Beryllium, Total Recoverable	0.05	I	0.04	0.50	ug/L	6020
Cobalt, Total Recoverable	1.4		0.03	1.0	ug/L	6020
Chromium, Total Recoverable	3.2		0.2	1.0	ug/L	6020
Nickel, Total Recoverable	0.8	I	0.5	2.0	ug/L	6020
Lead, Total Recoverable	0.27	I	0.12	0.50	ug/L	6020
Vanadium, Total Recoverable	2.9		0.3	2.0	ug/L	6020
Zinc, Total Recoverable	5.2		1.6	5.0	ug/L	6020
Solids, Total Dissolved	237		10	10	mg/L	SM 2540 C

CLIENT ID: CW-2A	Lab ID: J1403216-002					
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	106		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	7.19		0.007	0.010	mg/L	350.1
Iron, Total Recoverable	3270		3	100	ug/L	6010B
Sodium, Total Recoverable	66.8		0.03	0.50	mg/L	6010B
Arsenic, Total Recoverable	1.3		0.5	1.0	ug/L	6020
Barium, Total Recoverable	54.2		0.5	2.0	ug/L	6020
Beryllium, Total Recoverable	0.36	I	0.04	0.50	ug/L	6020
Cobalt, Total Recoverable	1.4		0.03	1.0	ug/L	6020
Chromium, Total Recoverable	1.6		0.2	1.0	ug/L	6020
Copper, Total Recoverable	0.3	I	0.3	1.0	ug/L	6020
Nickel, Total Recoverable	2.5		0.5	2.0	ug/L	6020
Antimony, Total Recoverable	0.2	I	0.2	1.0	ug/L	6020
Vanadium, Total Recoverable	7.8		0.3	2.0	ug/L	6020
Zinc, Total Recoverable	4.1	I	1.6	5.0	ug/L	6020
Solids, Total Dissolved	958		20	20	mg/L	SM 2540 C

CLIENT ID: CW-3A	Lab ID: J1403216-003					
Analyte	Results	Flag	MDL	PQL	Units	Method
Chloride	59.6		0.2	1.0	mg/L	300.0
Ammonia as Nitrogen	7.80		0.007	0.010	mg/L	350.1
Iron, Total Recoverable	123000		3	100	ug/L	6010B
Sodium, Total Recoverable	57.9		0.03	0.50	mg/L	6010B
Arsenic, Total Recoverable	1.7		0.5	1.0	ug/L	6020
Barium, Total Recoverable	121		0.5	2.0	ug/L	6020
Beryllium, Total Recoverable	0.61		0.04	0.50	ug/L	6020



### SAMPLE DETECTION SUMMARY

CLIENT ID: CW-3A	Lab ID: J1403216-003					
Analyte	Results	Flag	MDL	PQL	Units	Method
Cobalt, Total Recoverable	12.6		0.03	1.0	ug/L	6020
Chromium, Total Recoverable	9.3		0.2	1.0	ug/L	6020
Copper, Total Recoverable	0.5	I	0.3	1.0	ug/L	6020
Nickel, Total Recoverable	2.5		0.5	2.0	ug/L	6020
Vanadium, Total Recoverable	10.9		0.3	2.0	ug/L	6020
Zinc, Total Recoverable	4.5	I	1.6	5.0	ug/L	6020
Solids, Total Dissolved	1360		20	20	mg/L	SM 2540 C



**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216  
**Date Received:** 5/6/14

## 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

Three water samples and one trip blank were received for analysis at ALS Environmental on 05/06/2014. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at  $\leq 6^{\circ}\text{C}$  upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

### Volatile Organic Analyses:

No significant data anomalies were noted with this analysis.

### Semi-Volatile Organic Analyses:

Method 8011: The control criterion was exceeded for the following surrogate in sample J1403216-002 due to suspected matrix interference: 1,1,1,2-Tetrachloroethane. A re-extraction and reanalysis was performed, but produced similar results. The results of the second analysis are reported and no further corrective action was required.

### Metals Analyses:

No significant data anomalies were noted with this analysis.

### General Chemistry Analyses:

No significant data anomalies were noted with this analysis.

Approved by

A handwritten signature in black ink, appearing to read "Amy R. Mays".

Date 5/27/2014



## State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Florida Department of Health	E82502	6/30/2014
North Carolina Department of Environment and Natural Resources	527	12/31/2014
Virginia Environmental Accreditation Program	460191	12/14/2014
Louisiana Department of Environmental Quality	02086	6/30/2014
Georgia Department of Natural Resources	958	6/30/2014
Kentucky Division of Waste Management	63	6/30/2014
South Carolina Department of Health and Environmental Control	96021001	6/30/2014
Texas Commission on Environmental Quality	T104704197-13-5	5/31/2014
Maine Department of Health and Human Services	2011006	2/3/2015
Department of Defense	66206	11/1/2014
Pennsylvania Department of Environmental Protection	68-04835	8/31/2014

## **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

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## 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:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells

**Service Request:**J1403216

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1403216-001	CW-1A	5/5/2014	1600
J1403216-002	CW-2A	5/5/2014	1510
J1403216-003	CW-3A	5/5/2014	1400
J1403216-004	Trip Blank	5/5/2014	0000

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** CW-1A  
**Lab Code:** J1403216-001

**Service Request:** J1403216  
**Date Collected:** 05/05/14 16:00  
**Date Received:** 05/06/14 08:54

**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	05/07/14 05:41	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	05/07/14 05:41	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	05/07/14 05:41	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	05/07/14 05:41	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	05/07/14 05:41	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	05/07/14 05:41	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	05/07/14 05:41	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	05/07/14 05:41	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	05/07/14 05:41	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	05/07/14 05:41	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	05/07/14 05:41	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	05/07/14 05:41	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	05/07/14 05:41	
2-Butanone (MEK)	3.8 U	10	3.8	1	05/07/14 05:41	
2-Hexanone	2.2 U	25	2.2	1	05/07/14 05:41	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	05/07/14 05:41	
Acetone	5.6 U	50	5.6	1	05/07/14 05:41	
Acrylonitrile	1.5 U	10	1.5	1	05/07/14 05:41	
Benzene	0.21 U	1.0	0.21	1	05/07/14 05:41	
Bromochloromethane	0.27 U	5.0	0.27	1	05/07/14 05:41	
Bromodichloromethane	0.22 U	1.0	0.22	1	05/07/14 05:41	
Bromoform	0.42 U	2.0	0.42	1	05/07/14 05:41	
Bromomethane	0.23 U	5.0	0.23	1	05/07/14 05:41	
Carbon Disulfide	2.4 U	10	2.4	1	05/07/14 05:41	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	05/07/14 05:41	
Chlorobenzene	0.16 U	1.0	0.16	1	05/07/14 05:41	
Chloroethane	0.52 U	5.0	0.52	1	05/07/14 05:41	
Chloroform	0.35 U	1.0	0.35	1	05/07/14 05:41	
Chloromethane	0.36 U	1.0	0.36	1	05/07/14 05:41	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	05/07/14 05:41	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	05/07/14 05:41	
Dibromochloromethane	0.21 U	1.0	0.21	1	05/07/14 05:41	
Dibromomethane	0.36 U	5.0	0.36	1	05/07/14 05:41	
Ethylbenzene	0.21 U	1.0	0.21	1	05/07/14 05:41	
Iodomethane	2.7 U	5.0	2.7	1	05/07/14 05:41	
m,p-Xylenes	0.31 U	2.0	0.31	1	05/07/14 05:41	
Methylene Chloride	0.21 U	5.0	0.21	1	05/07/14 05:41	
o-Xylene	0.14 U	1.0	0.14	1	05/07/14 05:41	
Styrene	0.29 U	1.0	0.29	1	05/07/14 05:41	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	05/07/14 05:41	
Toluene	0.19 U	1.0	0.19	1	05/07/14 05:41	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	05/07/14 05:41	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	05/07/14 05:41	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-1A  
**Lab Code:** J1403216-001

**Service Request:** J1403216  
**Date Collected:** 05/05/14 16:00  
**Date Received:** 05/06/14 08:54

**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	05/07/14 05:41	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	05/07/14 05:41	
Trichlorofluoromethane	0.24 U	20	0.24	1	05/07/14 05:41	
Vinyl Acetate	1.9 U	10	1.9	1	05/07/14 05:41	
Vinyl Chloride	0.36 U	1.0	0.36	1	05/07/14 05:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	90	72 - 121	05/07/14 05:41	
4-Bromofluorobenzene	93	86 - 113	05/07/14 05:41	
Dibromofluoromethane	93	86 - 112	05/07/14 05:41	
Toluene-d8	100	88 - 115	05/07/14 05:41	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Waste Services of Florida, Inc. **Service Request:** J1403216  
**Project:** JED Compliance Wells **Date Collected:** 05/05/14 16:00  
**Sample Matrix:** Water **Date Received:** 05/06/14 08:54

**Sample Name:** CW-1A **Units:** ug/L  
**Lab Code:** J1403216-001 **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	05/13/14 00:22	5/12/14	
1,2-Dibromoethane (EDB)	0.00700 U	0.0199	0.00700	1	05/13/14 00:22	5/12/14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	75	70 - 130	05/13/14 00:22	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** CW-1A  
**Lab Code:** J1403216-001

**Service Request:** J1403216  
**Date Collected:** 05/05/14 16:00  
**Date Received:** 05/06/14 08:54

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Antimony, Total Recoverable	6020	0.2 U	ug/L	1.0	0.2	1	05/07/14 19:10	05/07/14	
Arsenic, Total Recoverable	6020	<b>77.6</b>	ug/L	1.0	0.5	1	05/07/14 19:10	05/07/14	
Barium, Total Recoverable	6020	<b>33.3</b>	ug/L	2.0	0.5	1	05/07/14 19:10	05/07/14	
Beryllium, Total Recoverable	6020	<b>0.05 I</b>	ug/L	0.50	0.04	1	05/07/14 19:10	05/07/14	
Cadmium, Total Recoverable	6020	0.10 U	ug/L	0.40	0.10	1	05/07/14 19:10	05/07/14	
Chromium, Total Recoverable	6020	<b>3.2</b>	ug/L	1.0	0.2	1	05/07/14 19:10	05/07/14	
Cobalt, Total Recoverable	6020	<b>1.4</b>	ug/L	1.0	0.03	1	05/07/14 19:10	05/07/14	
Copper, Total Recoverable	6020	0.3 U	ug/L	1.0	0.3	1	05/07/14 19:10	05/07/14	
Iron, Total Recoverable	6010B	<b>6390</b>	ug/L	100	3	1	05/07/14 20:09	05/07/14	
Lead, Total Recoverable	6020	<b>0.27 I</b>	ug/L	0.50	0.12	1	05/07/14 19:10	05/07/14	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	05/13/14 14:35	05/09/14	
Nickel, Total Recoverable	6020	<b>0.8 I</b>	ug/L	2.0	0.5	1	05/07/14 19:10	05/07/14	
Selenium, Total Recoverable	6020	1.1 U	ug/L	2.0	1.1	1	05/07/14 19:10	05/07/14	
Silver, Total Recoverable	6020	0.06 U	ug/L	0.50	0.06	1	05/07/14 19:10	05/07/14	
Sodium, Total Recoverable	6010B	<b>15.1</b>	mg/L	0.50	0.03	1	05/07/14 20:09	05/07/14	
Thallium, Total Recoverable	6020	0.05 U	ug/L	0.20	0.05	1	05/07/14 19:10	05/07/14	
Vanadium, Total Recoverable	6020	<b>2.9</b>	ug/L	2.0	0.3	1	05/07/14 19:10	05/07/14	
Zinc, Total Recoverable	6020	<b>5.2</b>	ug/L	5.0	1.6	1	05/07/14 19:10	05/07/14	

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dba ALS Environmental

Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-1A  
**Lab Code:** J1403216-001

**Service Request:** J1403216  
**Date Collected:** 05/05/14 16:00  
**Date Received:** 05/06/14 08:54

**Basis:** NA

**General Chemistry Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Ammonia as Nitrogen	350.1	<b>0.575</b>	mg/L	0.010	0.007	1	05/12/14 14:09	
Chloride	300.0	<b>17.6</b>	mg/L	1.0	0.2	1	05/06/14 22:36	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	05/06/14 22:36	
Solids, Total Dissolved	SM 2540 C	<b>237</b>	mg/L	10	10	1	05/07/14 14:23	

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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** CW-2A  
**Lab Code:** J1403216-002

**Service Request:** J1403216  
**Date Collected:** 05/05/14 15:10  
**Date Received:** 05/06/14 08:54

**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	05/07/14 06:09	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	05/07/14 06:09	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	05/07/14 06:09	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	05/07/14 06:09	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	05/07/14 06:09	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	05/07/14 06:09	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	05/07/14 06:09	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	05/07/14 06:09	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	05/07/14 06:09	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	05/07/14 06:09	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	05/07/14 06:09	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	05/07/14 06:09	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	05/07/14 06:09	
2-Butanone (MEK)	3.8 U	10	3.8	1	05/07/14 06:09	
2-Hexanone	2.2 U	25	2.2	1	05/07/14 06:09	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	05/07/14 06:09	
Acetone	5.6 U	50	5.6	1	05/07/14 06:09	
Acrylonitrile	1.5 U	10	1.5	1	05/07/14 06:09	
Benzene	0.21 U	1.0	0.21	1	05/07/14 06:09	
Bromochloromethane	0.27 U	5.0	0.27	1	05/07/14 06:09	
Bromodichloromethane	0.22 U	1.0	0.22	1	05/07/14 06:09	
Bromoform	0.42 U	2.0	0.42	1	05/07/14 06:09	
Bromomethane	0.23 U	5.0	0.23	1	05/07/14 06:09	
Carbon Disulfide	2.4 U	10	2.4	1	05/07/14 06:09	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	05/07/14 06:09	
Chlorobenzene	0.16 U	1.0	0.16	1	05/07/14 06:09	
Chloroethane	0.52 U	5.0	0.52	1	05/07/14 06:09	
Chloroform	0.35 U	1.0	0.35	1	05/07/14 06:09	
Chloromethane	0.36 U	1.0	0.36	1	05/07/14 06:09	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	05/07/14 06:09	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	05/07/14 06:09	
Dibromochloromethane	0.21 U	1.0	0.21	1	05/07/14 06:09	
Dibromomethane	0.36 U	5.0	0.36	1	05/07/14 06:09	
Ethylbenzene	0.21 U	1.0	0.21	1	05/07/14 06:09	
Iodomethane	2.7 U	5.0	2.7	1	05/07/14 06:09	
m,p-Xylenes	0.31 U	2.0	0.31	1	05/07/14 06:09	
Methylene Chloride	0.21 U	5.0	0.21	1	05/07/14 06:09	
o-Xylene	0.14 U	1.0	0.14	1	05/07/14 06:09	
Styrene	0.29 U	1.0	0.29	1	05/07/14 06:09	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	05/07/14 06:09	
Toluene	0.19 U	1.0	0.19	1	05/07/14 06:09	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	05/07/14 06:09	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	05/07/14 06:09	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-2A  
**Lab Code:** J1403216-002

**Service Request:** J1403216  
**Date Collected:** 05/05/14 15:10  
**Date Received:** 05/06/14 08:54

**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	05/07/14 06:09	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	05/07/14 06:09	
Trichlorofluoromethane	0.24 U	20	0.24	1	05/07/14 06:09	
Vinyl Acetate	1.9 U	10	1.9	1	05/07/14 06:09	
Vinyl Chloride	0.36 U	1.0	0.36	1	05/07/14 06:09	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	72 - 121	05/07/14 06:09	
4-Bromofluorobenzene	92	86 - 113	05/07/14 06:09	
Dibromofluoromethane	97	86 - 112	05/07/14 06:09	
Toluene-d8	102	88 - 115	05/07/14 06:09	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Waste Services of Florida, Inc. **Service Request:** J1403216  
**Project:** JED Compliance Wells **Date Collected:** 05/05/14 15:10  
**Sample Matrix:** Water **Date Received:** 05/06/14 08:54

**Sample Name:** CW-2A **Units:** ug/L  
**Lab Code:** J1403216-002 **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	05/19/14 21:21	5/19/14	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	05/19/14 21:21	5/19/14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	52	70 - 130	05/19/14 21:21	*

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** CW-2A  
**Lab Code:** J1403216-002

**Service Request:** J1403216  
**Date Collected:** 05/05/14 15:10  
**Date Received:** 05/06/14 08:54

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Antimony, Total Recoverable	6020	<b>0.2 I</b>	ug/L	1.0	0.2	1	05/07/14 19:36	05/07/14	
Arsenic, Total Recoverable	6020	<b>1.3</b>	ug/L	1.0	0.5	1	05/07/14 19:36	05/07/14	
Barium, Total Recoverable	6020	<b>54.2</b>	ug/L	2.0	0.5	1	05/07/14 19:36	05/07/14	
Beryllium, Total Recoverable	6020	<b>0.36 I</b>	ug/L	0.50	0.04	1	05/07/14 19:36	05/07/14	
Cadmium, Total Recoverable	6020	0.10 U	ug/L	0.40	0.10	1	05/07/14 19:36	05/07/14	
Chromium, Total Recoverable	6020	<b>1.6</b>	ug/L	1.0	0.2	1	05/07/14 19:36	05/07/14	
Cobalt, Total Recoverable	6020	<b>1.4</b>	ug/L	1.0	0.03	1	05/07/14 19:36	05/07/14	
Copper, Total Recoverable	6020	<b>0.3 I</b>	ug/L	1.0	0.3	1	05/07/14 19:36	05/07/14	
Iron, Total Recoverable	6010B	<b>3270</b>	ug/L	100	3	1	05/07/14 20:13	05/07/14	
Lead, Total Recoverable	6020	0.12 U	ug/L	0.50	0.12	1	05/07/14 19:36	05/07/14	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	05/13/14 14:43	05/09/14	
Nickel, Total Recoverable	6020	<b>2.5</b>	ug/L	2.0	0.5	1	05/07/14 19:36	05/07/14	
Selenium, Total Recoverable	6020	1.1 U	ug/L	2.0	1.1	1	05/07/14 19:36	05/07/14	
Silver, Total Recoverable	6020	0.06 U	ug/L	0.50	0.06	1	05/07/14 19:36	05/07/14	
Sodium, Total Recoverable	6010B	<b>66.8</b>	mg/L	0.50	0.03	1	05/07/14 20:13	05/07/14	
Thallium, Total Recoverable	6020	0.05 U	ug/L	0.20	0.05	1	05/07/14 19:36	05/07/14	
Vanadium, Total Recoverable	6020	<b>7.8</b>	ug/L	2.0	0.3	1	05/07/14 19:36	05/07/14	
Zinc, Total Recoverable	6020	<b>4.1 I</b>	ug/L	5.0	1.6	1	05/07/14 19:36	05/07/14	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-2A  
**Lab Code:** J1403216-002

**Service Request:** J1403216  
**Date Collected:** 05/05/14 15:10  
**Date Received:** 05/06/14 08:54

**Basis:** NA

**General Chemistry Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Ammonia as Nitrogen	350.1	<b>7.19</b>	mg/L	0.010	0.007	1	05/12/14 14:10	
Chloride	300.0	<b>106</b>	mg/L	1.0	0.2	1	05/06/14 23:24	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	05/06/14 23:24	
Solids, Total Dissolved	SM 2540 C	<b>958</b>	mg/L	20	20	2	05/07/14 14:23	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** CW-3A  
**Lab Code:** J1403216-003

**Service Request:** J1403216  
**Date Collected:** 05/05/14 14:00  
**Date Received:** 05/06/14 08:54

**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	05/07/14 06:38	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	05/07/14 06:38	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	05/07/14 06:38	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	05/07/14 06:38	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	05/07/14 06:38	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	05/07/14 06:38	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	05/07/14 06:38	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	05/07/14 06:38	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	05/07/14 06:38	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	05/07/14 06:38	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	05/07/14 06:38	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	05/07/14 06:38	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	05/07/14 06:38	
2-Butanone (MEK)	3.8 U	10	3.8	1	05/07/14 06:38	
2-Hexanone	2.2 U	25	2.2	1	05/07/14 06:38	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	05/07/14 06:38	
Acetone	5.6 U	50	5.6	1	05/07/14 06:38	
Acrylonitrile	1.5 U	10	1.5	1	05/07/14 06:38	
Benzene	0.21 U	1.0	0.21	1	05/07/14 06:38	
Bromochloromethane	0.27 U	5.0	0.27	1	05/07/14 06:38	
Bromodichloromethane	0.22 U	1.0	0.22	1	05/07/14 06:38	
Bromoform	0.42 U	2.0	0.42	1	05/07/14 06:38	
Bromomethane	0.23 U	5.0	0.23	1	05/07/14 06:38	
Carbon Disulfide	2.4 U	10	2.4	1	05/07/14 06:38	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	05/07/14 06:38	
Chlorobenzene	0.16 U	1.0	0.16	1	05/07/14 06:38	
Chloroethane	0.52 U	5.0	0.52	1	05/07/14 06:38	
Chloroform	0.35 U	1.0	0.35	1	05/07/14 06:38	
Chloromethane	0.36 U	1.0	0.36	1	05/07/14 06:38	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	05/07/14 06:38	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	05/07/14 06:38	
Dibromochloromethane	0.21 U	1.0	0.21	1	05/07/14 06:38	
Dibromomethane	0.36 U	5.0	0.36	1	05/07/14 06:38	
Ethylbenzene	0.21 U	1.0	0.21	1	05/07/14 06:38	
Iodomethane	2.7 U	5.0	2.7	1	05/07/14 06:38	
m,p-Xylenes	0.31 U	2.0	0.31	1	05/07/14 06:38	
Methylene Chloride	0.21 U	5.0	0.21	1	05/07/14 06:38	
o-Xylene	0.14 U	1.0	0.14	1	05/07/14 06:38	
Styrene	0.29 U	1.0	0.29	1	05/07/14 06:38	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	05/07/14 06:38	
Toluene	0.19 U	1.0	0.19	1	05/07/14 06:38	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	05/07/14 06:38	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	05/07/14 06:38	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-3A  
**Lab Code:** J1403216-003

**Service Request:** J1403216  
**Date Collected:** 05/05/14 14:00  
**Date Received:** 05/06/14 08:54

**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	05/07/14 06:38	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	05/07/14 06:38	
Trichlorofluoromethane	0.24 U	20	0.24	1	05/07/14 06:38	
Vinyl Acetate	1.9 U	10	1.9	1	05/07/14 06:38	
Vinyl Chloride	0.36 U	1.0	0.36	1	05/07/14 06:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	72 - 121	05/07/14 06:38	
4-Bromofluorobenzene	92	86 - 113	05/07/14 06:38	
Dibromofluoromethane	100	86 - 112	05/07/14 06:38	
Toluene-d8	100	88 - 115	05/07/14 06:38	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-3A  
**Lab Code:** J1403216-003

**Service Request:** J1403216  
**Date Collected:** 05/05/14 14:00  
**Date Received:** 05/06/14 08:54

**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	05/13/14 05:22	5/12/14	
1,2-Dibromoethane (EDB)	0.00707 U	0.0202	0.00707	1	05/13/14 05:22	5/12/14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	100	70 - 130	05/13/14 05:22	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** CW-3A  
**Lab Code:** J1403216-003

**Service Request:** J1403216  
**Date Collected:** 05/05/14 14:00  
**Date Received:** 05/06/14 08:54

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Antimony, Total Recoverable	6020	0.2 U	ug/L	1.0	0.2	1	05/07/14 19:41	05/07/14	
Arsenic, Total Recoverable	6020	<b>1.7</b>	ug/L	1.0	0.5	1	05/07/14 19:41	05/07/14	
Barium, Total Recoverable	6020	<b>121</b>	ug/L	2.0	0.5	1	05/07/14 19:41	05/07/14	
Beryllium, Total Recoverable	6020	<b>0.61</b>	ug/L	0.50	0.04	1	05/07/14 19:41	05/07/14	
Cadmium, Total Recoverable	6020	0.10 U	ug/L	0.40	0.10	1	05/07/14 19:41	05/07/14	
Chromium, Total Recoverable	6020	<b>9.3</b>	ug/L	1.0	0.2	1	05/07/14 19:41	05/07/14	
Cobalt, Total Recoverable	6020	<b>12.6</b>	ug/L	1.0	0.03	1	05/07/14 19:41	05/07/14	
Copper, Total Recoverable	6020	<b>0.5 I</b>	ug/L	1.0	0.3	1	05/07/14 19:41	05/07/14	
Iron, Total Recoverable	6010B	<b>123000</b>	ug/L	100	3	1	05/07/14 20:17	05/07/14	
Lead, Total Recoverable	6020	0.12 U	ug/L	0.50	0.12	1	05/07/14 19:41	05/07/14	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	05/13/14 14:44	05/09/14	
Nickel, Total Recoverable	6020	<b>2.5</b>	ug/L	2.0	0.5	1	05/07/14 19:41	05/07/14	
Selenium, Total Recoverable	6020	1.1 U	ug/L	2.0	1.1	1	05/07/14 19:41	05/07/14	
Silver, Total Recoverable	6020	0.06 U	ug/L	0.50	0.06	1	05/07/14 19:41	05/07/14	
Sodium, Total Recoverable	6010B	<b>57.9</b>	mg/L	0.50	0.03	1	05/07/14 20:17	05/07/14	
Thallium, Total Recoverable	6020	0.05 U	ug/L	0.20	0.05	1	05/07/14 19:41	05/07/14	
Vanadium, Total Recoverable	6020	<b>10.9</b>	ug/L	2.0	0.3	1	05/07/14 19:41	05/07/14	
Zinc, Total Recoverable	6020	<b>4.5 I</b>	ug/L	5.0	1.6	1	05/07/14 19:41	05/07/14	

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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** CW-3A  
**Lab Code:** J1403216-003

**Service Request:** J1403216  
**Date Collected:** 05/05/14 14:00  
**Date Received:** 05/06/14 08:54

**Basis:** NA

**General Chemistry Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Ammonia as Nitrogen	350.1	<b>7.80</b>	mg/L	0.010	0.007	1	05/12/14 14:14	
Chloride	300.0	<b>59.6</b>	mg/L	1.0	0.2	1	05/06/14 23:40	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	05/06/14 23:40	
Solids, Total Dissolved	SM 2540 C	<b>1360</b>	mg/L	20	20	2	05/07/14 14:23	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** Trip Blank  
**Lab Code:** J1403216-004

**Service Request:** J1403216  
**Date Collected:** 05/05/14 00:00  
**Date Received:** 05/06/14 08:54

**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	05/07/14 03:54	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	05/07/14 03:54	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	05/07/14 03:54	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	05/07/14 03:54	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	05/07/14 03:54	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	05/07/14 03:54	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	05/07/14 03:54	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	05/07/14 03:54	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	05/07/14 03:54	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	05/07/14 03:54	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	05/07/14 03:54	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	05/07/14 03:54	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	05/07/14 03:54	
2-Butanone (MEK)	3.8 U	10	3.8	1	05/07/14 03:54	
2-Hexanone	2.2 U	25	2.2	1	05/07/14 03:54	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	05/07/14 03:54	
Acetone	5.6 U	50	5.6	1	05/07/14 03:54	
Acrylonitrile	1.5 U	10	1.5	1	05/07/14 03:54	
Benzene	0.21 U	1.0	0.21	1	05/07/14 03:54	
Bromochloromethane	0.27 U	5.0	0.27	1	05/07/14 03:54	
Bromodichloromethane	0.22 U	1.0	0.22	1	05/07/14 03:54	
Bromoform	0.42 U	2.0	0.42	1	05/07/14 03:54	
Bromomethane	0.23 U	5.0	0.23	1	05/07/14 03:54	
Carbon Disulfide	2.4 U	10	2.4	1	05/07/14 03:54	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	05/07/14 03:54	
Chlorobenzene	0.16 U	1.0	0.16	1	05/07/14 03:54	
Chloroethane	0.52 U	5.0	0.52	1	05/07/14 03:54	
Chloroform	0.35 U	1.0	0.35	1	05/07/14 03:54	
Chloromethane	0.36 U	1.0	0.36	1	05/07/14 03:54	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	05/07/14 03:54	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	05/07/14 03:54	
Dibromochloromethane	0.21 U	1.0	0.21	1	05/07/14 03:54	
Dibromomethane	0.36 U	5.0	0.36	1	05/07/14 03:54	
Ethylbenzene	0.21 U	1.0	0.21	1	05/07/14 03:54	
Iodomethane	2.7 U	5.0	2.7	1	05/07/14 03:54	
m,p-Xylenes	0.31 U	2.0	0.31	1	05/07/14 03:54	
Methylene Chloride	0.21 U	5.0	0.21	1	05/07/14 03:54	
o-Xylene	0.14 U	1.0	0.14	1	05/07/14 03:54	
Styrene	0.29 U	1.0	0.29	1	05/07/14 03:54	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	05/07/14 03:54	
Toluene	0.19 U	1.0	0.19	1	05/07/14 03:54	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	05/07/14 03:54	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	05/07/14 03:54	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** Trip Blank  
**Lab Code:** J1403216-004

**Service Request:** J1403216  
**Date Collected:** 05/05/14 00:00  
**Date Received:** 05/06/14 08:54

**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	05/07/14 03:54	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	05/07/14 03:54	
Trichlorofluoromethane	0.24 U	20	0.24	1	05/07/14 03:54	
Vinyl Acetate	1.9 U	10	1.9	1	05/07/14 03:54	
Vinyl Chloride	0.36 U	1.0	0.36	1	05/07/14 03:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	94	72 - 121	05/07/14 03:54	
4-Bromofluorobenzene	93	86 - 113	05/07/14 03:54	
Dibromofluoromethane	99	86 - 112	05/07/14 03:54	
Toluene-d8	101	88 - 115	05/07/14 03:54	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** JQ1403344-03

**Service Request:** J1403216  
**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	05/07/14 03:02	
1,1,1-Trichloroethane (TCA)	0.17 U	1.0	0.17	1	05/07/14 03:02	
1,1,2,2-Tetrachloroethane	0.29 U	1.0	0.29	1	05/07/14 03:02	
1,1,2-Trichloroethane	0.40 U	1.0	0.40	1	05/07/14 03:02	
1,1-Dichloroethane (1,1-DCA)	0.30 U	1.0	0.30	1	05/07/14 03:02	
1,1-Dichloroethene (1,1-DCE)	0.16 U	1.0	0.16	1	05/07/14 03:02	
1,2,3-Trichloropropane	0.42 U	2.0	0.42	1	05/07/14 03:02	
1,2-Dibromo-3-chloropropane (DBCP)	2.3 U	5.0	2.3	1	05/07/14 03:02	
1,2-Dibromoethane (EDB)	0.46 U	1.0	0.46	1	05/07/14 03:02	
1,2-Dichlorobenzene	0.48 U	1.0	0.48	1	05/07/14 03:02	
1,2-Dichloroethane	0.22 U	1.0	0.22	1	05/07/14 03:02	
1,2-Dichloropropane	0.19 U	1.0	0.19	1	05/07/14 03:02	
1,4-Dichlorobenzene	0.16 U	1.0	0.16	1	05/07/14 03:02	
2-Butanone (MEK)	3.8 U	10	3.8	1	05/07/14 03:02	
2-Hexanone	2.2 U	25	2.2	1	05/07/14 03:02	
4-Methyl-2-pentanone (MIBK)	1.1 U	25	1.1	1	05/07/14 03:02	
Acetone	5.6 U	50	5.6	1	05/07/14 03:02	
Acrylonitrile	1.5 U	10	1.5	1	05/07/14 03:02	
Benzene	0.21 U	1.0	0.21	1	05/07/14 03:02	
Bromochloromethane	0.27 U	5.0	0.27	1	05/07/14 03:02	
Bromodichloromethane	0.22 U	1.0	0.22	1	05/07/14 03:02	
Bromoform	0.42 U	2.0	0.42	1	05/07/14 03:02	
Bromomethane	0.23 U	5.0	0.23	1	05/07/14 03:02	
Carbon Disulfide	2.4 U	10	2.4	1	05/07/14 03:02	
Carbon Tetrachloride	0.34 U	1.0	0.34	1	05/07/14 03:02	
Chlorobenzene	0.16 U	1.0	0.16	1	05/07/14 03:02	
Chloroethane	0.52 U	5.0	0.52	1	05/07/14 03:02	
Chloroform	0.35 U	1.0	0.35	1	05/07/14 03:02	
Chloromethane	0.36 U	1.0	0.36	1	05/07/14 03:02	
cis-1,2-Dichloroethene	0.36 U	1.0	0.36	1	05/07/14 03:02	
cis-1,3-Dichloropropene	0.20 U	1.0	0.20	1	05/07/14 03:02	
Dibromochloromethane	0.21 U	1.0	0.21	1	05/07/14 03:02	
Dibromomethane	0.36 U	5.0	0.36	1	05/07/14 03:02	
Ethylbenzene	0.21 U	1.0	0.21	1	05/07/14 03:02	
Iodomethane	2.7 U	5.0	2.7	1	05/07/14 03:02	
m,p-Xylenes	0.31 U	2.0	0.31	1	05/07/14 03:02	
Methylene Chloride	0.21 U	5.0	0.21	1	05/07/14 03:02	
o-Xylene	0.14 U	1.0	0.14	1	05/07/14 03:02	
Styrene	0.29 U	1.0	0.29	1	05/07/14 03:02	
Tetrachloroethene (PCE)	0.22 U	1.0	0.22	1	05/07/14 03:02	
Toluene	0.19 U	1.0	0.19	1	05/07/14 03:02	
trans-1,2-Dichloroethene	0.19 U	1.0	0.19	1	05/07/14 03:02	
trans-1,3-Dichloropropene	0.23 U	1.0	0.23	1	05/07/14 03:02	

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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** Method Blank  
**Lab Code:** JQ1403344-03

**Service Request:** J1403216  
**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	05/07/14 03:02	
Trichloroethene (TCE)	0.36 U	1.0	0.36	1	05/07/14 03:02	
Trichlorofluoromethane	0.24 U	20	0.24	1	05/07/14 03:02	
Vinyl Acetate	1.9 U	10	1.9	1	05/07/14 03:02	
Vinyl Chloride	0.36 U	1.0	0.36	1	05/07/14 03:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	92	72 - 121	05/07/14 03:02	
4-Bromofluorobenzene	94	86 - 113	05/07/14 03:02	
Dibromofluoromethane	97	86 - 112	05/07/14 03:02	
Toluene-d8	102	88 - 115	05/07/14 03:02	

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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
  
**Sample Name:** Method Blank  
**Lab Code:** JQ1403444-01

**Service Request:** J1403216  
**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	05/12/14 23:39	5/12/14	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	05/12/14 23:39	5/12/14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	99	70 - 130	05/12/14 23:39	

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Analytical Report

**Client:** Waste Services of Florida, Inc. **Service Request:** J1403216  
**Project:** JED Compliance Wells **Date Collected:** NA  
**Sample Matrix:** Water **Date Received:** NA

**Sample Name:** Method Blank **Units:** ug/L  
**Lab Code:** JQ1403641-01 **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	05/19/14 20:38	5/19/14	
1,2-Dibromoethane (EDB)	0.00700 U	0.0200	0.00700	1	05/19/14 20:38	5/19/14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,1,1,2-Tetrachloroethane	79	70 - 130	05/19/14 20:38	

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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J1403216-MB

**Service Request:** J1403216  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Antimony, Total Recoverable	6020	0.2 U	ug/L	1.0	0.2	1	05/07/14 18:55	05/07/14	
Arsenic, Total Recoverable	6020	0.5 U	ug/L	1.0	0.5	1	05/07/14 18:55	05/07/14	
Barium, Total Recoverable	6020	0.5 U	ug/L	2.0	0.5	1	05/07/14 18:55	05/07/14	
Beryllium, Total Recoverable	6020	0.04 U	ug/L	0.50	0.04	1	05/07/14 18:55	05/07/14	
Cadmium, Total Recoverable	6020	0.10 U	ug/L	0.40	0.10	1	05/07/14 18:55	05/07/14	
Chromium, Total Recoverable	6020	0.2 U	ug/L	1.0	0.2	1	05/07/14 18:55	05/07/14	
Cobalt, Total Recoverable	6020	0.03 U	ug/L	1.0	0.03	1	05/07/14 18:55	05/07/14	
Copper, Total Recoverable	6020	0.3 U	ug/L	1.0	0.3	1	05/07/14 18:55	05/07/14	
Iron, Total Recoverable	6010B	7 I	ug/L	100	3	1	05/07/14 19:24	05/07/14	
Lead, Total Recoverable	6020	0.12 U	ug/L	0.50	0.12	1	05/07/14 18:55	05/07/14	
Mercury, Total	7470A	0.02 U	ug/L	0.10	0.02	1	05/13/14 14:32	05/09/14	
Nickel, Total Recoverable	6020	0.5 U	ug/L	2.0	0.5	1	05/07/14 18:55	05/07/14	
Selenium, Total Recoverable	6020	1.1 U	ug/L	2.0	1.1	1	05/07/14 18:55	05/07/14	
Silver, Total Recoverable	6020	0.06 U	ug/L	0.50	0.06	1	05/07/14 18:55	05/07/14	
Sodium, Total Recoverable	6010B	0.03 U	mg/L	0.50	0.03	1	05/07/14 19:24	05/07/14	
Thallium, Total Recoverable	6020	0.05 U	ug/L	0.20	0.05	1	05/07/14 18:55	05/07/14	
Vanadium, Total Recoverable	6020	0.3 U	ug/L	2.0	0.3	1	05/07/14 18:55	05/07/14	
Zinc, Total Recoverable	6020	2.8 I	ug/L	5.0	1.6	1	05/07/14 18:55	05/07/14	

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Analytical Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** J1403216-MB

**Service Request:** J1403216  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

**General Chemistry Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Ammonia as Nitrogen	350.1	0.007 U	mg/L	0.010	0.007	1	05/12/14 14:02	
Chloride	300.0	0.2 U	mg/L	1.0	0.2	1	05/06/14 20:13	
Nitrate as Nitrogen	300.0	0.03 U	mg/L	0.20	0.03	1	05/06/14 20:13	
Solids, Total Dissolved	SM 2540 C	10 U	mg/L	10	10	1	05/07/14 14:23	

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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260B

Sample Name	Lab Code	1,2-Dichloroethane-d4	4-Bromofluorobenzene	Dibromofluoromethane
CW-1A	J1403216-001	90	93	93
CW-2A	J1403216-002	94	92	97
CW-3A	J1403216-003	95	92	100
Trip Blank	J1403216-004	94	93	99
Lab Control Sample	JQ1403344-01	91	94	99
Duplicate Lab Control Sample	JQ1403344-02	92	96	97
Method Blank	JQ1403344-03	92	94	97

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260B

<b>Sample Name</b>	<b>Lab Code</b>	<b>Toluene-d8</b>
		<b>88 - 115</b>
CW-1A	J1403216-001	100
CW-2A	J1403216-002	102
CW-3A	J1403216-003	100
Trip Blank	J1403216-004	101
Lab Control Sample	JQ1403344-01	104
Duplicate Lab Control Sample	JQ1403344-02	105
Method Blank	JQ1403344-03	102

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216  
**Date Analyzed:** 05/07/14

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

**Analysis Method:** 8260B

**Units:** ug/L  
**Basis:** NA  
**Analysis Lot:** 391499

**Lab Control Sample**  
**JQ1403344-01**

**Duplicate Lab Control Sample**  
**JQ1403344-02**

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	53.7	50.0	107	54.0	50.0	108	77-118	<1	30
1,1,1-Trichloroethane (TCA)	48.3	50.0	97	46.6	50.0	93	70-122	4	30
1,1,2,2-Tetrachloroethane	52.0	50.0	104	50.8	50.0	102	66-135	2	30
1,1,2-Trichloroethane	50.9	50.0	102	51.8	50.0	104	75-122	2	30
1,1-Dichloroethane (1,1-DCA)	48.0	50.0	96	45.9	50.0	92	79-117	4	30
1,1-Dichloroethene (1,1-DCE)	46.3	50.0	93	44.2	50.0	88	72-128	5	30
1,2,3-Trichloropropane	52.0	50.0	104	51.6	50.0	103	70-123	<1	30
1,2-Dibromo-3-chloropropane (DBCP)	49.5	50.0	99	49.2	50.0	98	60-122	<1	30
1,2-Dibromoethane (EDB)	53.8	50.0	108	53.8	50.0	108	76-118	<1	30
1,2-Dichlorobenzene	50.4	50.0	101	50.3	50.0	101	81-115	<1	30
1,2-Dichloroethane	44.9	50.0	90	44.0	50.0	88	70-117	2	30
1,2-Dichloropropene	47.8	50.0	96	46.1	50.0	92	79-117	3	30
1,4-Dichlorobenzene	50.0	50.0	100	49.7	50.0	99	82-115	<1	30
2-Butanone (MEK)	44.8	50.0	90	42.3	50.0	85	62-138	6	30
2-Hexanone	46.4	50.0	93	45.4	50.0	91	74-127	2	30
4-Methyl-2-pentanone (MIBK)	46.4	50.0	93	45.5	50.0	91	77-120	2	30
Acetone	44.7	50.0	89	42.9	50.0	86	42-161	4	30
Acrylonitrile	43.2	50.0	86	42.2	50.0	84	63-132	2	30
Benzene	49.6	50.0	99	47.8	50.0	96	80-117	4	30
Bromochloromethane	49.4	50.0	99	49.0	50.0	98	78-118	<1	30
Bromodichloromethane	47.4	50.0	95	46.1	50.0	92	75-118	3	30
Bromoform	55.6	50.0	111	55.4	50.0	111	63-121	<1	30
Bromomethane	38.6	50.0	77	38.0	50.0	76	31-153	2	30
Carbon Disulfide	51.8	50.0	104	49.5	50.0	99	72-128	5	30
Carbon Tetrachloride	47.1	50.0	94	44.6	50.0	89	67-124	5	30
Chlorobenzene	54.7	50.0	109	53.5	50.0	107	83-118	2	30
Chloroethane	48.1	50.0	96	46.5	50.0	93	68-132	3	30
Chloroform	46.9	50.0	94	45.5	50.0	91	77-116	3	30
Chloromethane	41.0	50.0	82	37.7	50.0	75	60-128	8	30
cis-1,2-Dichloroethene	47.5	50.0	95	45.6	50.0	91	78-117	4	30
cis-1,3-Dichloropropene	48.8	50.0	98	50.2	50.0	100	80-119	3	30
Dibromochloromethane	53.7	50.0	107	54.9	50.0	110	74-121	2	30
Dibromomethane	49.9	50.0	100	49.2	50.0	98	76-117	1	30
Ethylbenzene	53.0	50.0	106	51.4	50.0	103	82-119	3	30
Iodomethane	43.7	50.0	87	43.8	50.0	88	51-137	<1	30
m,p-Xylenes	105	100	105	99.3	100	99	79-122	5	30
Methylene Chloride	48.9	50.0	98	47.7	50.0	95	75-123	3	30
o-Xylene	51.9	50.0	104	49.9	50.0	100	80-119	4	30
Styrene	53.7	50.0	107	52.0	50.0	104	80-121	3	30
Tetrachloroethene (PCE)	57.0	50.0	114	55.9	50.0	112	75-126	2	30
Toluene	54.3	50.0	109	53.0	50.0	106	52-152	2	30

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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216  
**Date Analyzed:** 05/07/14

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

**Analysis Method:** 8260B      **Units:** ug/L  
   **Basis:** NA  
   **Analysis Lot:** 391499

**Lab Control Sample**  
**JQ1403344-01**      **Duplicate Lab Control Sample**  
**JQ1403344-02**

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	48.8	50.0	98	46.2	50.0	92	75-121	5	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	38.2	50.0	76	39.9	50.0	80	10-198	4	30
Trichloroethene (TCE)	53.2	50.0	106	51.3	50.0	103	78-122	4	30
Trichlorofluoromethane	49.4	50.0	99	46.7	50.0	93	58-134	6	30
Vinyl Acetate	43.6	50.0	87	43.1	50.0	86	36-169	1	30
Vinyl Chloride	46.8	50.0	94	44.2	50.0	88	69-138	6	30

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216

**SURROGATE RECOVERY SUMMARY**

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

**Analysis Method:** 8011

**Extraction Method:** Method

**1,1,1,2-Tetrachloroethane**

<b>Sample Name</b>	<b>Lab Code</b>	<b>70 - 130</b>
CW-1A	J1403216-001	75
CW-2A	J1403216-002	52 *
CW-3A	J1403216-003	100
Method Blank	JQ1403444-01	99
Lab Control Sample	JQ1403444-02	89
Method Blank	JQ1403641-01	79
Lab Control Sample	JQ1403641-02	79

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:**J1403216  
**Date Collected:**05/05/14  
**Date Received:**05/06/14  
**Date Analyzed:**05/07/14 - 05/13/14

**Duplicate Matrix Spike Summary**  
**Inorganic Parameters**

**Sample Name:** CW-1A **Units:**ug/L  
**Lab Code:** J1403216-001 **Basis:**NA

<b>Analyte Name</b>	<b>Method</b>	<b>Sample Result</b>	<b>Matrix Spike</b>			<b>Duplicate Matrix Spike</b>							
			<b>J1403216-001MS</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>Result</b>	<b>J1403216-001DMS</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>	<b>RPD</b>
Antimony, Total Recoverable	6020	0.2	49.9	50.0	100	50.0	50.0	100	75-125	<1	20		
Arsenic, Total Recoverable	6020	77.6	128	50.0	101	130	50.0	104	75-125	1	20		
Barium, Total Recoverable	6020	33.3	133	100	99	134	100	100	75-125	<1	20		
Beryllium, Total Recoverable	6020	0.05	22.5	25.0	90	22.0	25.0	88	75-125	2	20		
Cadmium, Total Recoverable	6020	0.10	19.3	20.0	97	19.8	20.0	99	75-125	2	20		
Chromium, Total Recoverable	6020	3.2	53.0	50.0	100	53.9	50.0	101	75-125	2	20		
Cobalt, Total Recoverable	6020	1.4	50.5	50.0	98	52.3	50.0	102	75-125	3	20		
Copper, Total Recoverable	6020	0.3	49.7	50.0	99	50.4	50.0	101	75-125	1	20		
Lead, Total Recoverable	6020	0.27	25.4	25.0	101	25.1	25.0	99	75-125	1	20		
Mercury, Total	7470A	0.02	1.1	1.25	91	1.1	1.25	90	75-125	2	20		
Nickel, Total Recoverable	6020	0.8	99.0	100	98	102	100	101	75-125	3	20		
Selenium, Total Recoverable	6020	1.1	84.0	100	84	88.5	100	89	75-125	5	20		
Silver, Total Recoverable	6020	0.06	24.1	25.0	96	23.8	25.0	95	75-125	<1	20		
Thallium, Total Recoverable	6020	0.05	9.86	10.0	99	9.92	10.0	99	75-125	<1	20		
Vanadium, Total Recoverable	6020	2.9	101	100	98	104	100	101	75-125	3	20		
Zinc, Total Recoverable	6020	5.2	244	250	96	250	250	98	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.**  
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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:**J1403216  
**Date Analyzed:**05/07/14 - 05/13/14

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
J1403216-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony, Total Recoverable	6020	50.2	50.0	100	80-120
Arsenic, Total Recoverable	6020	50.2	50.0	100	80-120
Barium, Total Recoverable	6020	102	100	102	80-120
Beryllium, Total Recoverable	6020	22.9	25.0	91	80-120
Cadmium, Total Recoverable	6020	20.5	20.0	102	80-120
Chromium, Total Recoverable	6020	50.5	50.0	101	80-120
Cobalt, Total Recoverable	6020	50.3	50.0	101	80-120
Copper, Total Recoverable	6020	51.2	50.0	102	80-120
Iron, Total Recoverable	6010B	5140	5000	103	80-120
Lead, Total Recoverable	6020	25.4	25.0	102	80-120
Mercury, Total	7470A	1.21	1.25	97	80-120
Nickel, Total Recoverable	6020	102	100	102	80-120
Selenium, Total Recoverable	6020	99.0	100	99	80-120
Silver, Total Recoverable	6020	25.3	25.0	101	80-120
Thallium, Total Recoverable	6020	9.95	10.0	99	80-120
Vanadium, Total Recoverable	6020	98.5	100	99	80-120
Zinc, Total Recoverable	6020	250	250	100	80-120

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:**J1403216  
**Date Analyzed:**5/7/14

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
J1403216-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Sodium, Total Recoverable	6010B	25.6	25.0	102	80-120

**ALS Group USA, Corp.**

dba ALS Environmental

## QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216  
**Date Collected:** 05/05/14  
**Date Received:** 05/06/14  
**Date Analyzed:** 05/06/14

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** CW-3A **Units:** mg/L  
**Lab Code:** J1403216-003 **Basis:** NA

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>PQL</b>	<b>MDL</b>	<b>Sample Result</b>	<b>Duplicate Sample</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
					<b>J1403216-003DUP Result</b>			
Chloride	300.0	1.0	0.2	59.6	60.3	60.0	1	20
Nitrate as Nitrogen	300.0	0.20	0.03	0.03	0.03	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.**

dba ALS Environmental

## QA/QC Report

**Client:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:** J1403216  
**Date Collected:** 05/05/14  
**Date Received:** 05/06/14  
**Date Analyzed:** 05/07/14

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** CW-2A **Units:** mg/L  
**Lab Code:** J1403216-002 **Basis:** NA

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>PQL</b>	<b>MDL</b>	<b>Sample Result</b>	<b>Duplicate Sample</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
					J1403216-002DUP Result			
Solids, Total Dissolved	SM 2540 C	20	20	958	962	960	<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:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:**J1403216  
**Date Collected:**05/05/14  
**Date Received:**05/06/14  
**Date Analyzed:**5/7/14

**Matrix Spike Summary**  
**General Chemistry Parameters**

**Sample Name:** CW-3A **Units:**mg/L  
**Lab Code:** J1403216-003 **Basis:**NA

**Matrix Spike**  
J1403216-003MS

<b>Analyte Name</b>	<b>Method</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Chloride	300.0	59.6	80.2	25.0	82 *	90-110
Nitrate as Nitrogen	300.0	0.03	5.03	5.00	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:** Waste Services of Florida, Inc.  
**Project:** JED Compliance Wells  
**Sample Matrix:** Water

**Service Request:**J1403216  
**Date Analyzed:**05/06/14 - 05/12/14

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
J1403216-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Ammonia as Nitrogen	350.1	1.09	1.00	109	90-110
Chloride	300.0	25.2	25.0	101	90-110
Nitrate as Nitrogen	300.0	5.29	5.00	106	90-110
Solids, Total Dissolved	SM 2540 C	302	300	101	85-115



## Cooler Receipt Form

Client: PWSFL Service Request #: 51403216  
Project: JED Compliance Welly  
Cooler received on 5/6/14 and opened on 5/6/14 by SL  
COURIER: ALS UPS FEDEX Client Other \_\_\_\_\_ Airbill # 8504 5193 0223

- |    |  |   |   |
|----|--|---|---|
| 1  | Were custody seals on outside of cooler?   | <input checked="" type="checkbox"/> Yes | No  |
|    | If yes, how many and where?  | #: <u>1</u> on lid                      | other   |
| 2  | Were seals intact and signature and date correct?  | <input checked="" type="checkbox"/> Yes | No N/A  |
| 3  | Were custody papers properly filled out?   | <input checked="" type="checkbox"/> Yes | No N/A  |
| 4  | Temperature of cooler(s) upon receipt (Should be > 0°C and < 6°C)  | <u>0.94</u>                             |   |
| 5  | Thermometer ID   | <u>M1</u>                               |   |
| 6  | Temperature Blank Present?   | <input checked="" type="checkbox"/> Yes | No  |
| 7  | Were Ice or Ice Packs present  | <input checked="" type="checkbox"/> Ice | Ice Packs No                                    |
| 8  | Did all bottles arrive in good condition (unbroken, etc....)?  | <input checked="" type="checkbox"/> Yes | No N/A  |
| 9  | Type of packing material present   | Netting<br>Paper                        | Vial Holder Styrofoam Other Bubble Wrap N/A N/A |
| 10 | Were all bottle labels complete (sample ID, preservation, etc....)?  | <input checked="" type="checkbox"/> Yes | No N/A  |
| 11 | Did all bottle labels and tags agree with custody papers?  | <input checked="" type="checkbox"/> Yes | No N/A  |
| 12 | Were the correct bottles used for the tests indicated?   | <input checked="" type="checkbox"/> Yes | No N/A  |
| 13 | Were all of the preserved bottles received with the appropriate preservative?<br><br>HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12<br>Preservative additions noted below | <input checked="" type="checkbox"/> Yes | No N/A  |
| 14 | Were all samples received within analysis holding times?   | <input checked="" type="checkbox"/> Yes | No N/A  |
| 15 | Were all VOA vials free of air bubbles? If present, note below   | <input checked="" type="checkbox"/> Yes | No N/A  |
| 16 | Where did the bottles originate?   | <u>ALS</u>                              | Client  |

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

Client approval to run samples if discrepancies noted:

Date:



Form FD 9000-24

**GROUNDWATER SAMPLING LOG**

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)				SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773							
WELL NO: CW-1A		SAMPLE ID: CW-1A				DATE: May 5, 2014					
<b>PURGING DATA</b>											
WELL DIAMETER (inches): 2.0		TUBING DIAMETER (inches): 0.25		WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet		STATIC DEPTH TO WATER (feet): 3.55					
PURGE PUMP TYPE OR BAILER: peristaltic											
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( 18.46 feet - 3.55 feet ) X 0.16 gallons/foot = 2.4 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= 0.0 gallons + ( 0.0026 gallons/foot X 3.5 feet ) + 0.12 gallons = 0.2 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13			PURGING INITIATED AT: 1540		PURGING ENDED AT: 1600		TOTAL VOLUME PURGED (gallons): 2		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1550	1.0	1.0	0.1	3.67	4.78	25.62	388	1.11	1.2	clear	61.1
1555	0.5	1.5	0.1	3.67	4.78	25.60	385	1.00	1.0	clear	58.9
1600	0.5	2	0.1	3.67	4.78	25.59	382	0.98	0.9	clear	58.0
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											
<b>SAMPLING DATA</b>											
SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL				SAMPLER(S) SIGNATURE(S): Joe Terry				SAMPLING INITIATED AT: 1600		SAMPLING ENDED AT: 1615	
PUMP OR TUBING DEPTH IN WELL (feet): 13				TUBING MATERIAL CODE: PE			FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP No				TUBING No (replaced)				DUPLICATE or EQUIPMENT BLANK: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
CW-1A	3	CG	40mL	HCL	Prefilled by lab		8260	RFPP	<100		
CW-1A	3	CG	40mL	None	None		8011	RFPP	<100		
CW-1A	1	PE	500mL	HNO <sub>3</sub>	Prefilled by lab		Metals	APP	380		
CW-1A	1	PE	125mL	H <sub>2</sub> SO <sub>4</sub>	Prefilled by lab		NH <sub>3</sub>	APP	380		
CW-1A	1	PE	250mL	None	None		TDS, Cl, NO <sub>3</sub>	APP	380		
REMARKS: weather: clear, 80°F odor: none											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

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

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

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

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

**Form FD 9000-24**  
**GROUNDWATER SAMPLING LOG**

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

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

pH: + 0.2 units Temperature: + 0.2 °C Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see notes)

pH,  $\pm 0.2$  units; temperature,  $\pm 0.2^\circ\text{C}$ ; Specific Conductance,  $\pm 5\%$ ; Dissolved Oxygen,  $\pm 10\%$ ; optional,  $\pm 0.2\text{ mg/l}$ , or  $\pm 10\%$  (whichever is greater). Turbidity: all readings  $< 20\text{ NTU}$ ; optional,

optionally,  $\pm 0.2 \text{ mg/L}$  or  $\pm 10\%$  (whichever is greater). Turbidity: all readings  $\leq 20 \text{ NTU}$ , optionally  $\pm 5 \text{ NTU}$  or  $\pm 10\%$ .

Revision Date: [REDACTED]

MANUFACTURED BY: CROWN GLASS COMPANY, INC., 1988

Revision Date: February 12, 2009

**Form FD 9000-24**  
**GROUNDWATER SAMPLING LOG**

SITE NAME: J.E.D. SWMF (WACs Facility ID: 89544)		SITE LOCATION: 1501 Omni Way, St. Cloud, Osceola County, Florida, 34773									
WELL NO: CW-3A		SAMPLE ID: CW-3A				DATE: May 5, 2014					
<b>PURGING DATA</b>											
WELL DIAMETER (inches): 2.0	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: 8 feet to 18 feet		STATIC DEPTH TO WATER (feet): 3.58		PURGE PUMP TYPE OR BAILER: peristaltic					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = ( 18.42 feet - 3.58 feet ) X 0.16 gallons/foot = 2.4 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = 0.0 gallons + ( 0.0026 gallons/foot X 40 feet ) + 0.12 gallons = 0.2 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13		PURGING INITIATED AT: 1335		PURGING ENDED AT: 1400		TOTAL VOLUME PURGED (gallons): 2.5			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ORP (mV)
1350	1.5	1.5	0.1	3.82	4.35	25.26	1590	1.14	1.9	clear	72.5
1355	0.5	2	0.1	3.82	4.34	25.20	1578	0.8	1.5	clear	68.8
1400	0.5	2.5	0.1	3.82	4.34	25.21	1572	0.73	1.1	clear	67.0
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: Joe Terry / PWSFL			SAMPLER(S) SIGNATURE(S): <i>Joe Terry</i>			SAMPLING INITIATED AT: 1400		SAMPLING ENDED AT: 1410	
PUMP OR TUBING DEPTH IN WELL (feet): 13			TUBING MATERIAL CODE: PE			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/> Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP No TUBING No (replaced)						DUPLICATE or EQUIPMENT BLANK: Y <input checked="" type="radio"/> N <input type="radio"/>			
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
CW-3A	3	CG	40mL	HCL	Prefilled by lab		8260	RFPP	<100
CW-3A	3	CG	40mL	None	None		8011	RFPP	<100
CW-3A	1	PE	500mL	HNO <sub>3</sub>	Prefilled by lab		Metals	APP	400
CW-3A	1	PE	125mL	H <sub>2</sub> SO <sub>4</sub>	Prefilled by lab		NH <sub>3</sub>	APP	400
CW-3A	1	PE	250mL	None	None		TDS, Cl, NO <sub>3</sub>	APP	400
REMARKS: weather: clear, 88°F odor: none									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

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

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

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

Revision Date: February 12, 2009

## Field Instrument Calibration Record

Site: JED SWMF

Date: 4 May 2014

Water Quality Instrument Make: YSI      Instrument Model Number: 556      Instrument Serial Number: 06A2173AM

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

Time: 1730

Calibration Standard			Instrument Response	Percent Deviation <sup>(1)</sup> or Difference	Allowable Deviation <sup>(2)</sup>	Calibrated? Yes or No	Type of Calibration <sup>(3)</sup>	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
3AH355	Aug 2015	pH = 4.00	3.85	0.15	0.2	Y	C	JT
C358930	Feb 7, 2015	pH = 7.00	6.96	0.04	0.2	Y	C	JT
C256078	Oct 2014	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C364881	June 2015	Turbidity = 10 NTU	10.23	2.3	10%	Y	C	JT
3AJ929	Oct 2014	Conductivity = 84 µS/cm	86	2.4	5%	Y	C	JT
4AA137	Jan 2015	Conductivity = 500 µS/cm	501	0.2	5%	Y	C	JT
4AA941	Jan 2015	Conductivity = 1,000 µS/cm	1003	0.3	5%	Y	C	JT
	Per Table →	D.O. = 8.514 mg/L @ 23.4°C	8.55	0.04	0.2 mg/l	Y	I	JT

Date: 6 May 2014      Time: 0530

Calibration Standard			Instrument Response	Percent Deviation <sup>(1)</sup> or Difference	Allowable Deviation <sup>(2)</sup>	Calibrated? Yes or No	Type of Calibration <sup>(3)</sup>	Calibration Performed By:
Lot No.	Expiration Date	Standard Value						
C359207	Feb 15, 2015	pH = 4.00	3.92	0.08	0.2	Y	C	JT
C358930	Feb 7, 2015	pH = 7.00	6.98	0.02	0.2	Y	C	JT
C256078	Oct 2014	pH = 10.00			0.2			
		Turbidity = 0.0 NTU						
		Turbidity = 1.0 NTU			10%			
C364881	June 2015	Turbidity = 10 NTU	10.01	0.1	10%	Y	C	JT
3AJ929	Oct 2014	Conductivity = 84 µS/cm	84	0	5%	Y	C	JT
4AA137	Jan 2015	Conductivity = 500 µS/cm	502	0.4	5%	Y	C	JT
4AA941	Jan 2015	Conductivity = 1,000 µS/cm	1005	0.5	5%	Y	C	JT
	Per Table →	D.O. = 8.4 mg/L @ 24.1°C	8.43	0.03	0.2 mg/l	Y	I	JT

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

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

Note (3): Initial, Continual, Final



# 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 <u>JED Compliance Wells</u>		Project Number			ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager <u>Mike Kaiser</u>		Email Address <u>mkaizer@wslfl.us</u>			PRESERVATIVE	1	0	3	2	0									
Company/Address <u>PWSFL - JED SWDF</u> <u>1501 Omni Way</u> <u>St. Cloud, FL 34773</u>		NUMBER OF CONTAINERS													Preservative Key				
Phone # <u>904-673-0446</u>			FAX #	9260	8011	NH <sub>3</sub>	Methyl	TDS Cl NO <sub>2</sub>											0. NONE 1. HCl 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____
Sampler's Signature <u>Joe Terry</u>		Sampler's Printed Name <u>Joe Terry</u>															REMARKS/ ALTERNATE DESCRIPTION		
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX															
CW-1A		5-5-14	1600	G.W	9	3	3	1	1	1									
CW-2A			1510	G.W	9	3	3	1	1	1									
CW-3A			↓ 1400	G.W	9	3	3	1	1	1									
Trp Blank		5-5-14	0000	D <sub>2</sub> O	1	1													
SPECIAL INSTRUCTIONS/COMMENTS <u>Cooler ID: 14125-JED</u>					TURNAROUND REQUIREMENTS				REPORT REQUIREMENTS				INVOICE INFORMATION						
					RUSH (SURCHARGES APPLY) <input checked="" type="checkbox"/> STANDARD				I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required)				PO #						
					REQUESTED FAX DATE				III. Results + QC and Calibration Summaries				BILL TO:						
					REQUESTED REPORT DATE				IV. Data Validation Report with Raw Data										
									V. Specialized Forms / Custom Report										
									Edata <input type="checkbox"/> Yes <input type="checkbox"/> No										
See QAPP <input type="checkbox"/>		SAMPLE RECEIPT: CONDITION/COOLER TEMP:			CUSTODY SEALS: Y N														
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY											
Signature <u>Joe Terry</u>	Signature	Signature		Signature		Signature		Signature											
Printed Name <u>Joe Terry</u>	Printed Name	Printed Name		Printed Name		Printed Name		Printed Name											
Firm <u>PWSFL</u>	Firm	Firm		Firm		Firm		Firm											
Date/Time <u>5-5-14/1630</u>	Date/Time	Date/Time		Date/Time		Date/Time		Date/Time											