

February 3, 2014

Mr. John Morris, P.G.
Southwest District Office
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Re: **Review of Semi-Annual Sampling Results
Second Half 2013 Sampling Event
Hardee County Landfill
WACS Facility ID No. SWD/25/40612
Permit No. 38414-011-SO**

Dear Mr. Morris:

On behalf of the Hardee County Solid Waste Department, Atkins presents this review of the results of the second half of 2013 sampling event for the facility referenced above. This document is designed to comply with the requirements of Specific Condition E.10 of the facility's permit, and was compiled in general accordance with the guidelines promulgated in Chapter 62-701.510(9) (a) of the Florida Administrative Code (FAC).

BACKGROUND

The Hardee County Solid Waste Disposal Facility is an active Class I landfill, which encompasses approximately 100 acres of land at 685 Airport Road in Hardee County, Florida. According to the facility's operating permit, the water quality monitoring network is designed to monitor the groundwater in the surficial aquifer, the surface water, and leachate. The groundwater monitoring network includes eight monitoring wells, which are designated MW-1, MW-2, MW-4, MW-5, MW-8, MW-10R, MW-11, and MW-12R. The facility's permit designates MW-1 and MW-4 as background wells and the other wells as detection wells. There are three other monitoring wells, MW-3, MW-6, and MW-7, which are designated by the permit as piezometers, along with 12 other piezometers. Please note that former piezometers P-1, P-2, and P-15 have been abandoned. The layout of the site is presented in **Figure 1**.

Specific Condition E.4.d of the facility's permit specifies that groundwater samples be collected from the monitoring wells on a semiannual basis. The groundwater samples are analyzed for the analytes listed on the 40 Code of Federal Regulations (CFR) Part 258, Appendix I, as well as for total ammonia, iron, chlorides, mercury, nitrate, sodium, and total dissolved solids (TDS). These analytes are also listed in Specific Condition No. 29(c) of the facility's permit.

Specific Condition E.9 of the permit calls for the collection of a leachate samples from two points - at Manhole 9 (Phase I) and at the Phase II leachate collection/detection riser. Leachate samples are typically collected during the first half sampling event of each year and are analyzed for the laboratory analytes listed in the referenced specific condition. In December 2013, sampling of the leachate was attempted at both locations during the second half 2013 sampling event. However, no leachate (liquid) sufficient for sampling was available at the Phase II collection/detection riser, so the only leachate sample collected was from Manhole 9.

Specific Condition E.8 of the permit calls for the collection of a surface water sample from one location, which is designated SW-2. The surface water samples are normally collected during both semiannual sampling events during the year if sufficient water is present.

The groundwater, leachate, and surface water sampling points are illustrated in **Figure 1**.

SECOND HALF 2013 SAMPLING EVENT

The second half 2013 sampling event was conducted on December 26 and 27, 2013. Groundwater and leachate samples were collected during this event; no surface water was present. The groundwater and leachate samples were collected in general accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedure for Field Activities (SOP 001/01). Sample collection was performed by Atkins personnel, and analysis was performed by Flowers Chemical Laboratories, Inc. (FCL). FCL is a NELAC-certified laboratory. A FDEP Ground Water Monitoring Report form for the sampling event is provided in **Attachment A**.

Sample Collection Methodology

Prior to sampling the monitoring wells, each was purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of one to three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. The groundwater samples were given identifiers which corresponded to the well of origin. Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. Water level readings were also made at the piezometers listed in the permit. The water level measurements were subtracted from the TOC elevations to determine the elevation of the water table at each well and piezometer. The TOC elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD). The groundwater sampling logs and field equipment calibration logs are provided in **Attachment B**.

All of the samples were placed in laboratory-prepared containers, placed on ice, and carried to FCL for analysis of the analytes listed in the applicable specific conditions of the facility's permit.

SECOND HALF 2013 SAMPLING EVENT RESULTS

Groundwater Flow Pattern

Depth to groundwater measurements were collected at the eight monitoring wells and at 14 piezometers during this sampling event. The groundwater level elevation data from this event are presented in **Table 1**. The groundwater elevation data were plotted and contoured to generate the groundwater elevation contour map presented in **Figure 2**. The data indicated that the groundwater in the surficial aquifer beneath the landfill was flowing in a southerly direction at the time of this sampling event. The water table gradient measured approximately 0.00155 feet per foot beneath the site (as measured between well MW-1 and well MW-10R).

Sampling Results

A description of the detections in the groundwater and leachate is presented below.

Groundwater Analytical Results

There were numerous inorganic analytes detected and two organic analytes (benzene and toluene) detected in the groundwater samples collected and analyzed during this sampling event. The inorganic analyte detections included all of those which are part of the analytical program except antimony, beryllium, cadmium, cobalt, lead, selenium, silver, thallium, and zinc. At least one inorganic analyte was detected at every well in the monitoring network.

The concentrations of all of the analytes that were detected in the groundwater were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated by Chapter 62-550 of the Florida Administrative Code (FAC). Not every parameter has an MCL or SDWS. There were four analytes detected at concentrations that did not comply with their standards – pH, iron, arsenic, and benzene. Iron and pH have SDWS criteria, while the criteria for arsenic and benzene are provided as MCLs in Chapter 62-550 FAC. A description of the detection patterns with these four analytes is described below.

- pH - The standard for pH is any value within the range of 6.5 to 8.5. The pH values at all except one of the wells were below 6.5, and the pH measured as low as 4.28 at well MW-1. The pH values at both of the background monitoring wells, MW-1 and MW-4, were lower than the standard range.
- Iron - The standard for iron is 0.3 milligrams per liter (mg/L). The iron concentration in the samples collected at all wells except MW-11 and MW-12R exceeded the standard. The iron concentrations at both of the background wells were higher than the standard.

- Arsenic – Monitoring at this site has been closely tracking arsenic concentrations in MW-4. The standard for arsenic is 0.01 mg/L. In December 2013, the arsenic concentration in MW-4 slightly exceeded the standard, at a value of 0.0156 mg/L. In June 2013, the arsenic concentration also slightly exceeded the standard in the sample from MW-4 (at 0.0141 mg/L). However, during June 2012 and January 2013, the arsenic concentration in MW-4 was below the standard (at a value of 0.00968 mg/L and 0.00753 mg/L, respectively). MW-4 is designated as a background well.
- Benzene - Benzene has an MCL of 1 microgram per liter ($\mu\text{g/L}$). The benzene concentration at monitoring well MW-8 was higher than the standard during this sampling event (at a value of 3.21 $\mu\text{g/L}$). Benzene was also detected at MW-8 at a concentration greater than the standard in January 2013, but not in June 2013. Benzene had been detected occasionally at MW-8, but not at concentrations greater than the standard, during the sampling events of 2011 and 2012.

It should be noted that the turbidity was relatively low (2.36 NTU) at MW-1. The turbidity at that well had been elevated during previous sampling events. Toluene was detected in one monitoring well, but its concentration did not approach the MCL.

A summary of the groundwater analytical results is presented in **Table 2**, and the laboratory analytical report is provided in **Attachment C**.

Surface Water Analytical Results

Due to the lack of water in the pond, no surface water was available for sampling at surface water sampling location SW-2. Sampling of surface water will be attempted again during the First Half 2014 sampling event.

Leachate Water Analytical Results

Specific Condition E.9.a of the facility permit specifies that leachate samples be collected from two locations. The collection points are Manhole 9 (Phase I) and the Phase II Leachate Collection/Detection Riser. Sampling occurred on December 27, 2013, and a sample was collected from the Manhole 9 (Phase I) location. The Phase II sample location was found to be dry.

There were numerous inorganic analytes and three organic analytes (chlorobenzene, methylene chloride, and para-dichlorobenzene) detected in the leachate sample. The concentration of every parameter that was detected in the leachate was compared to regulatory levels listed in 40 CFR Part 261.24, as required by the Florida solid waste regulations. There were no analytes in the leachate that exceeded the above-referenced criteria. A summary of the leachate water analytical results is presented in **Table 3** and the laboratory analytical report is provided in **Attachment C**.

SUMMARY AND CONCLUSIONS

The results of the second half 2013 sampling event at the Hardee County Solid Waste Disposal Facility were consistent with those of the recent sampling events, with numerous inorganic analyte detections in the groundwater and leachate, and very few organic analyte detections. There were four analytes detected in the groundwater outside of the regulatory standards: arsenic, benzene, pH, and iron were detected in the groundwater at concentrations in excess of the regulatory criteria. It should be noted that the primary parameters that were not in compliance with standards in the groundwater (pH and iron) were also not in compliance with standards in the background monitoring wells. The arsenic exceedance occurred only in the background well (MW-4). MW-8 will continue to be monitored on a semi-annual basis to determine if there are any trends associated with the detections of benzene.

Based on these findings, the facility does not appear to be having a significant effect on groundwater and surface water quality. Atkins recommends that the analytical results in future sampling events be evaluated closely for any developing trends. Due to regulatory changes implemented in August 2012, the Hardee County Landfill facility is no longer required by the FDEP to sample the leachate. Continued sampling of leachate is at the discretion of the County. If you have any questions regarding the information presented in this report, please call me at (813) 281-8377 or Dave Deans at (407) 421-2011.

Very truly yours,



Bradley J. Bayne, PG
Senior Scientist
Florida PG No. 1733

CC: Ms. Teresa Carver, Hardee County Solid Waste Department, 685 Airport Road,
Wauchula, FL 33873 (2 copies)
File 100037989

TABLES

Table 1
Groundwater Elevation Data
Hardee County Landfill
Second Half 2013

Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Ground Surface Elevation (Ft-NGVD)	Total Depth (Ft-TOC)	Well Diameter (Inches)	Depth to Groundwater (Ft below TOC)	Groundwater Elevation (Ft-NGVD)
Monitoring Wells						
MW-1	87.97	86.24	11.00	4	7.00	80.97
MW-2	85.86	83.75	10.50	4	7.79	78.07
MW-4	87.16	84.09	18.90	2	7.63	79.53
MW-5	88.76	85.83	18.10	2	9.59	79.17
MW-8	88.98	85.80	13.50	2	10.19	78.79
MW-10R	88.56	85.49	15.12	2	9.80	78.76
MW-11	88.11	85.17	13.90	2	9.55	78.56
MW-12R	89.00	85.71	23.25	2	10.33	78.67
Piezometers						
MW-3	88.06	86.46	NA	2	8.45	79.61
MW-6	88.25	85.06	NA	2	NM*	NM*
MW-7	87.88	84.98	NA	2	9.62	78.26
P-1	90.57	86.47	NA	2	NM*	NM*
P-2	91.08	89.48	NA	2	NM*	NM*
P-7	84.47	82.41	NA	2	6.43	78.04
P-8	85.32	83.25	NA	2	7.09	78.23
P-11	88.69	86.16	NA	2	9.34	79.35
P-13	87.96	87.98	NA	2	9.56	78.40
P-14	87.31	84.05	NA	2	9.07	78.24
P-15	87.72	89.62	NA	2	NM*	NM*
P-17	88.82	85.88	NA	2	7.56	81.26
P-18	88.74	84.37	NA	2	8.94	79.80
P-19	86.73	84.14	NA	2	6.65	80.08
P-20	87.6	84.68	NA	2	7.65	79.95
P-21	86.63	83.57	NA	2	8.12	78.51
P-22	87.04	84.09	NA	2	8.71	78.33
P-23	86.45	83.71	NA	2	8.73	77.72

NM* = Not measured, recently abandoned.

**Table 2
Groundwater Analytical Summary
Hardee County Landfill
Second Half 2013**

Analyte	Monitoring Well:		MW-1	MW-2	MW-4	MW-5	MW-8	MW-10R	MW-11	MW-12R
	Sample Date:		12/26/2013	12/26/2013	12/26/2013	12/26/2013	12/26/2013	12/27/2013	12/27/2013	12/26/2013
	Standard ⁽¹⁾	Units								
Field Measurements										
Groundwater Elevation		ft	81.0	78.1	79.5	79.2	78.8	78.8	78.6	78.7
Temperature		deg. C	24.2	24.4	24.3	25.4	27.3	24.6	23.8	25.0
pH	6.5-8.5	STD	4.28	6.87	6.30	5.05	5.81	5.92	4.79	6.20
Conductivity		umhos/cm	179	498	460	132	624	384	40.0	512
Dissolved Oxygen (DO)		mg/l	2.51	0.460	0.200	0.870	0.29	0.220	1.49	1.39
Turbidity		NTU	2.36	2.45	2.63	5.87	4.00	1.74	3.88	1.43
Inorganics										
Nitrate (as N)	10	mg/l	0.0367	0.321	0.0100 U	0.0261	0.0198 I	0.031	0.0384	0.0191 I
TDS	500	mg/l	196	262	344	70.0	334	208	4.00 I	320
Chloride	250	mg/l	10.8	17.1	7.67 I	4.00 U	17.1	11.4	4.00 U	4.00 U
Antimony	0.006	mg/l	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Arsenic	0.01	mg/l	0.00406	0.00100 U	0.0156	0.00100 U	0.00100 U	0.00247	0.00100 U	0.00254
Barium	2	mg/l	0.0132	0.0134	0.0124	0.00238 I	0.00333 I	0.0147	0.00544	0.00341 I
Beryllium	0.004	mg/l	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Cadmium	0.005	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Chromium	0.1	mg/l	0.00872	0.00100 U	0.00627	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Cobalt		mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Copper	1	mg/l	0.00612	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Lead	0.015	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Mercury	0.002	mg/l	0.0000200 U	0.0000200 U	0.0000200 U	0.000224	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U
Nickel	0.1	mg/l	0.00441	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Selenium	0.05	mg/l	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U
Silver	0.1	mg/l	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U	0.000500 U
Thallium	0.002	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Vanadium		mg/l	0.0241	0.00259	0.0182	0.00100 U	0.00247	0.00100 U	0.00244	0.00362
Zinc	5	mg/l	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Ammonia (as N)	2.8	mg/l	0.0100 U	0.0100 U	0.0100 U	0.0100 U	2.49	0.0100 U	0.0100 U	0.0100 U
Iron	0.3	mg/l	10.4	0.529	15.6	3.07	8.94	27.7	0.234	0.0587
Sodium	160	mg/l	11.4	15.1	8.69	4.53	14.4	17.0	3.09	5.20
Organics										
1,1,1,2-Tetrachloroethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,1-Trichloroethane	200	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1,2,2-Tetrachloroethane		ug/l	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
1,1,2-Trichloroethane	5	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,1-Dichloroethene	7	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloroethane	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
1,2-Dichloropropane	5	ug/l	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
2-Butanone (MEK)		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
2-Hexanone		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Acetone	6300	ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Acrylonitrile		ug/l	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U	0.300 U
Benzene	1	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	3.21	0.500 U	0.500 U	0.500 U
Bromochloromethane		ug/l	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Bromodichloromethane		ug/l	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Bromoform		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Bromomethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Carbon Disulfide		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Carbon Tetrachloride	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chlorobenzene		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloroform		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Chloromethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Dibromochloromethane		ug/l	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U	0.400 U
Dibromomethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Ethylbenzene	700	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Methyl Iodide		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methyl isobutyl ketone		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Methylene chloride		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Para-dichlorobenzene	75	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Styrene	100	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Tetrachloroethene	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Toluene	1000	ug/l	0.500 U	0.500 U	3.71	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichloroethene	3	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Trichlorofluoromethane		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Vinyl Acetate		ug/l	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl chloride	1	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Xylenes	10000	ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
cis-1,2-Dichloroethene	70	ug/l	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
cis-1,3-Dichloropropene		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
o-Dichlorobenzene	600	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,2-Dichloroethene	100	ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,3-Dichloropropene		ug/l	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
trans-1,4-Dichloro-2-butene		ug/l	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U

⁽¹⁾ - Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS), as established in Chapter 62-550. Analyte concentrations shown with shading represent an exceedance of the MCL or SDWS.

U = Compound was analyzed but not detected; I = Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit J = estimated value

**Table 3
Leachate Analytical Summary
Hardee County Landfill
Second Half 2013**

Analyte	Location:		Phase I Leachate
	Sample Identifier:		Manhole 9
	Date of Sample:		12/27/13
	Standard(1)	Units	
Field Measurements			
Temperature		deg. C	25.7
pH		STD	6.14
Conductivity		umhos/cm	1170
Dissolved Oxygen (DO)		mg/l	0.150
Inorganics			
Antimony		mg/L	0.00200 U
Arsenic	5	mg/L	0.00437
Barium	100	mg/L	0.0282
Beryllium		mg/L	0.000500 U
Cadmium	1	mg/L	0.00100 U
Chloride		mg/L	140
Chromium	5	mg/L	0.00321
Cobalt		mg/L	0.00257
Copper		mg/L	0.00100 U
Cyanide		mg/L	0.00500 U
Iron		mg/L	34.0
Lead	5	mg/L	0.00100 U
Mercury	0.2	mg/L	0.0000200 U
Nickel		mg/L	0.0196
Nitrate		mg/L	0.0100 U
Selenium	1	mg/L	0.00200 U
Silver	5	mg/L	0.000500 U
Sodium		mg/L	82.8
Sulfide		mg/L	2.16
Total Alkalinity (as CaCO3)		mg/l	326
Total Ammonia - N		mg/L	27.9
Thallium		mg/L	0.00100 U
Tin as SN		mg/L	0.00500 U
Total Dissolved Solids (TDS)		mg/L	614
Vanadium		mg/L	0.0127
Zinc		mg/L	0.0100 U
Pesticides & Herbicides			
2,4,5-T		ug/l	0.250 U
2,4,5-TP (Silvex)	1,000	ug/l	0.250 U
2,4-D	10,000	ug/l	0.250 U
4,4-DDD		ug/l	0.0200 U
4,4-DDE		ug/l	0.0200 U
4,4-DDT		ug/l	0.0200 U
a-BHC		ug/l	0.0200 U
Aldrin		ug/l	0.0200 U
b-BHC		ug/l	0.0100 U
Chlordane	30	ug/l	0.0100 U
d-BHC		ug/l	0.0100 U
Dieldrin		ug/l	0.0200 U
Dinoseb		ug/l	0.250 U
Endosulfan Sulfate		ug/l	0.0200 U
Endosulfan-I		ug/l	0.0100 U
Endosulfan-II		ug/l	0.0100 U
Endrin	20	ug/l	0.0100 U
Endrin Aldehyde		ug/l	0.0200 U
g-BHC (Lindane)	400	ug/l	0.0100 U
Heptachlor	130	ug/l	0.0100 U
Heptachlor Epoxide	130	ug/l	0.0100 U
Methoxychlor	10,000	ug/l	0.0100 U
Pentachlorophenol	100,000	ug/l	0.400 U
Toxaphene	500	ug/l	0.500 U

Analyte	Location:		Phase I Leachate
	Sample Identifier:		Manhole 9
	Date of Sample:		12/27/13
	Standard(1)	Units	
PCBs			
Arochlor 1016		ug/l	0.100 U
Arochlor 1221		ug/l	0.100 U
Arochlor 1232		ug/l	0.100 U
Arochlor 1242		ug/l	0.100 U
Arochlor 1248		ug/l	0.100 U
Arochlor 1254		ug/l	0.100 U
Arochlor 1260		ug/l	0.100 U
Organics, Acid Extractables			
2,4,6-Trichlorophenol	2,000	ug/l	2.0 U
2,3,4,6-Tetrachlorophenol		ug/l	2.0 U
2,4,5-Trichlorophenol	400,000	ug/l	1.00 U
2,4-Dichlorophenol		ug/l	1.00 U
2,4-Dimethylphenol		ug/l	2.0 U
2,4-Dinitrophenol		ug/l	5.0 U
2,6-Dichlorophenol		ug/l	1.00 U
2-Nitrophenol		ug/l	2.0 U
4-Nitrophenol		ug/l	2.0 U
Phenol		ug/l	2.0 U
Base Neutrals			
1,2,4,5-Tetrachlorobenzene		ug/l	2.0 U
1,4-Naphthoquinone		ug/l	10.0 U
1-Naphthylamine		ug/l	10.0 U
2,4-Dinitrotoluene	130	ug/l	0.200 U
2,6-Dinitrotoluene		ug/l	2.0 U
2-Acetylaminoflourene		ug/l	10.0 U
2-Chloronaphthalene		ug/l	2.0 U
2-Chlorophenol		ug/l	2.0 U
2-Methyl-4,6-dinitrophenol		ug/l	2.0 U
2-Methylnaphthalene		ug/l	2.0 U
2-Naphthylamine		ug/l	2.0 U
p-Nitroaniline		ug/l	2.0 U
3,3-Dichlorobenzidine		ug/l	2.0 U
3,3-Dimethylbenzidine		ug/l	2.0 U
3-Methylcholanthrene		ug/l	10.0 U
4-Aminobiphenyl		ug/l	10.0 U
4-Bromophenyl-phenylether		ug/l	2.0 U
4-Chlorophenylphenylether		ug/l	2.0 U
5-Nitro-o-toluidine		ug/l	2.0 U
7,12-Dimethylbenz(a)anthracene		ug/l	10.0 U
Acenaphthene		ug/l	2.0 U
Acenaphthylene		ug/l	2.0 U
Acetophenone		ug/l	10.0 U
Anthracene		ug/l	2.0 U
Benzo(a)anthracene		ug/l	0.200 U
Benzo(a)pyrene		ug/l	1.00 U
Benzo(b)flouranthene		ug/l	0.100 U
Benzo(g,h,i)perylene		ug/l	2.0 U
Benzo(k)flouranthene		ug/l	1.0 U
Benzyl alcohol		ug/l	5.0 U
Bis(2-chloroethoxy)methane		ug/l	2.0 U
Bis(2-chloroethyl)ether		ug/l	2.0 U
Bis(2-ethylhexyl)phthalate		ug/l	3.0 U
Butylbenzylphthalate		ug/l	3.0 U
Chlorobenzilate		ug/l	0.800 U
Chrysene		ug/l	2.0 U
Diallate		ug/l	2.0 U

Analyte	Location:		Phase I Leachate
	Sample Identifier:		Manhole 9
	Date of Sample:		12/27/13
	Standard(1)	Units	
Dibenz(a,h)anthracene		ug/l	0.200 U
Dibenzofuran		ug/l	5.0 U
Diethylphthalate		ug/l	3.0 U
Dimethoate		ug/l	2.0 U
Dimethylphthalate		ug/l	3.0 U
Di-N-butylphthalate		ug/l	3.0 U
Di-N-octylphthalate		ug/l	3.0 U
Disulfoton		ug/l	0.300 U
Ethyl methanesulfonate		ug/l	20.0 U
Famphur		ug/l	2.0 U
Flouranthene		ug/l	2.0 U
Flourene		ug/l	2.0 U
Hexachlorobenzene	130	ug/l	1.00 U
Hexachlorobutadiene	500	ug/l	2.0 U
Hexachlorocyclopentadiene		ug/l	2.0 U
Hexachloroethane	3,000	ug/l	2.0 U
Hexylchloropropene		ug/l	10.0 U
Indeno(1,2,3-cd)pyrene		ug/l	0.200 U
Isodrin		ug/l	20.0 U
Isophorone		ug/l	2.0 U
Isosafrole		ug/l	2.0 U
Kepone		ug/l	2.00 U
Methapyrilene		ug/l	20.0 U
Methyl parathion		ug/l	0.500 U
Methyl methanesulfonate		ug/l	10.0 U
Nitrobenzene	2,000	ug/l	2.0 U
N-Nitrosodiethylamine		ug/l	3.0 U
N-Nitrosodimethylamine		ug/l	3.0 U
N-Nitroso di-n-butylamine		ug/l	2.0 U
N-Nitrosodi-n-propylamine		ug/l	2.0 U
N-Nitrosodiphenylamine		ug/l	2.0 U
N-Nitrosomethylmethylamine		ug/l	2.0 U
N-Nitropiperidine		ug/l	10.0 U
N-Nitrosopyrrolidine		ug/l	2.0 U
O,O-Diethyl-0,2-pyrazinylphosphorothioate		ug/l	10.0 U
O,O,O-Triethylphosphorothioate		ug/l	10.0 U
Ortho-toluidine		ug/l	2.0 U
P-(Dimethylamino)azobenzene		ug/l	10.0 U
P-Chloro-m-creosol		ug/l	2.0 U
P-Chloroaniline		ug/l	10.0 U
P- Creosol		ug/l	2.0 U
P-Phenylenediamine		ug/l	10.0 U
P-nitroaniline		ug/l	2.0 U
Pentachlorobenzene		ug/l	0.300 U
Pentachloronitrobenzene		ug/l	0.300 U
Phenacetin		ug/l	20.0 U
Phenanathrene		ug/l	2.0 U
Phorate		ug/l	1.00 U
Pronamide		ug/l	10.0 U
Pyrene	5,000	ug/l	2.0 U
Saffrole		ug/l	10.0 U
Volatile Organics			
1,1,1,2-Tetrachloroethane		ug/l	0.500 U
1,1,1-Trichloroethane		ug/l	0.500 U
1,1,2,2-Tetrachloroethane		ug/l	0.100 U
1,1,2-Trichloroethane		ug/l	0.500 U
1,2-Dibromoethane (EDB)		ug/l	0.0100 U
1,2-Dibromo-3-chloropropane		ug/l	0.0200 U
1,1-Dichloroethane		ug/l	0.500 U
1,1-Dichloroethene	700	ug/l	0.500 U

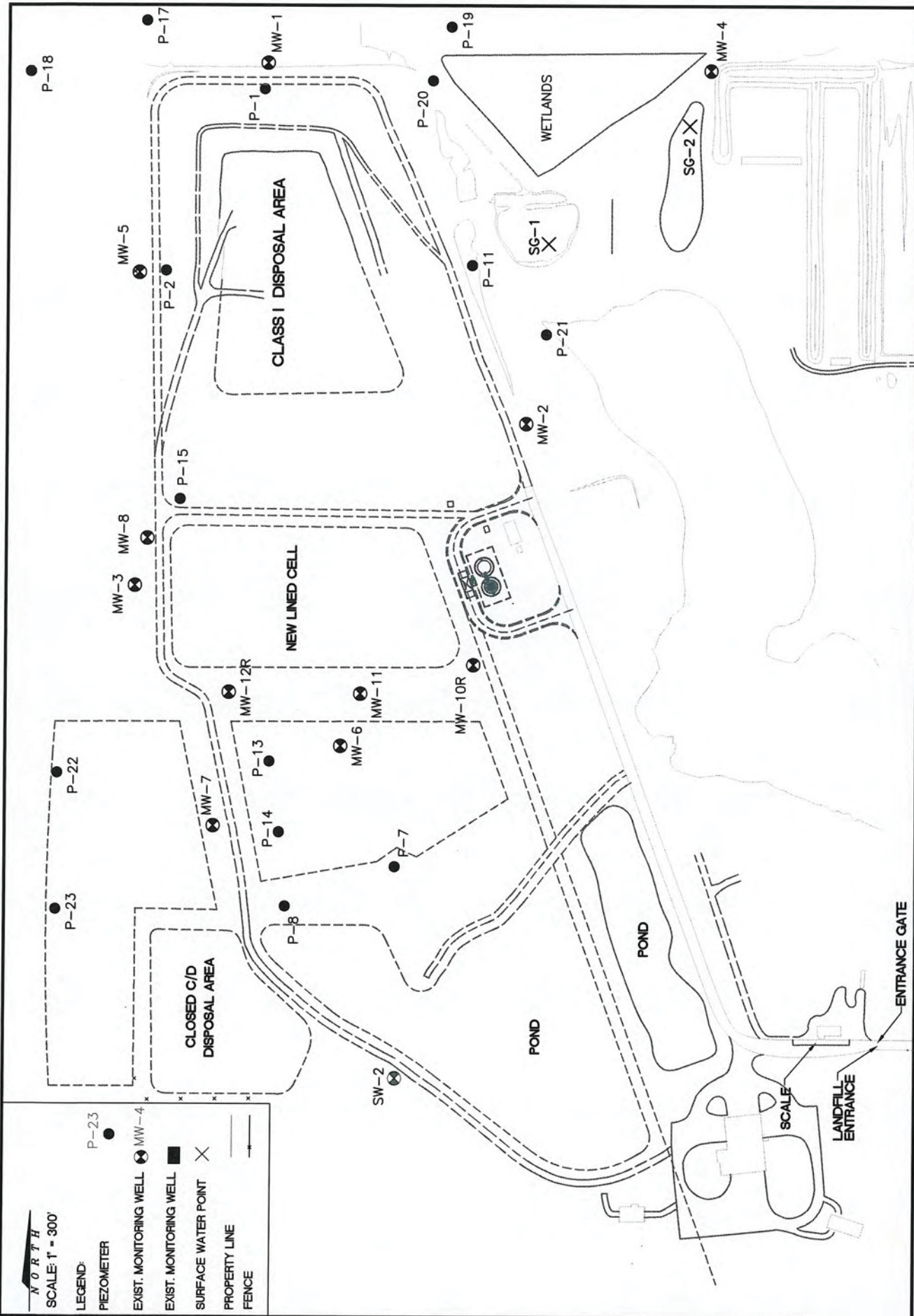
Analyte	Location:		Phase I Leachate
	Sample Identifier:		Manhole 9
	Date of Sample:		12/27/13
	Standard(1)	Units	
1,1-Dichloropropene		ug/l	0.200 U
1,2,3-Trichloropropane		ug/l	0.0200 U
1,2,4-Trichlorobenzene		ug/l	0.500 U
1,2-Dichloroethane	500	ug/l	0.500 U
1,2-Dichloropropane		ug/l	0.200 U
1,3-Dichloropropane		ug/l	0.300 U
2,2-Dichloropropane		ug/l	0.500 U
2-Butanone (MEK)	200,000	ug/l	0.500 U
2-Hexanone		ug/l	0.500 U
Acetone		ug/l	5.00 U
Acetonitrile		ug/l	1.00 U
Acrolein		ug/l	3.50 U
Acrylonitrile		ug/l	0.300 U
Benzene	500	ug/l	0.500 U
Bromochloromethane		ug/l	0.100 U
Bromodichloromethane		ug/l	0.100 U
Bromoform		ug/l	0.500 U
Bromomethane		ug/l	0.500 U
Carbon disulfide		ug/l	1.00 U
Carbon tetrachloride	500	ug/l	0.500 U
Chlorobenzene	100,000	ug/l	1.90
Chloroethane		ug/l	0.500 U
Chloroform	6,000	ug/l	0.500 U
Chloromethane		ug/l	0.500 U
Chloroprene		ug/l	5.00 U
cis-1,2-Dichloroethene		ug/l	0.200 U
cis-1,3-Dichloropropene		ug/l	0.500 U
Dibromochloromethane		ug/l	0.400 U
Dibromomethane		ug/l	0.500 U
Dichlorodifluoromethane		ug/l	0.500 U
Ethyl methacrylate		ug/l	0.500 U
Ethylbenzene		ug/l	0.500 U
Isobutyl alcohol		ug/l	1.00 U
m-Dichlorobenzene		ug/l	0.500 U
o-Dichlorobenzene		ug/l	0.500 U
Methacrylonitrile		ug/l	0.500 U
Methyl methacrylate		ug/l	2.00 U
Methylene chloride		ug/l	1.34 I
Naphthalene		ug/l	2.00 U
Para-dichlorobenzene		ug/l	1.02
Propionitrile		ug/l	1.00 U
Styrene		ug/l	0.500 U
Tetrachloroethene	700	ug/l	0.500 U
Toluene		ug/l	0.500 U
Total xylenes		ug/l	1.00 U
trans-1,2-Dichloroethene		ug/l	0.500 U
trans-1,3-Dichloropropene		ug/l	0.500 U
trans-1,4-Dichloro-2-butene		ug/l	1.00 U
Trichloroethene	500	ug/l	0.500 U
Trichlorofluoromethane		ug/l	0.500 U
Vinyl acetate		ug/l	5.00 U
Vinyl chloride	200	ug/l	0.500 U

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24.

I = between MDL and PQL

Abbreviations: U = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter.

FIGURES



NORTH
 SCALE: 1" = 300'

LEGEND:

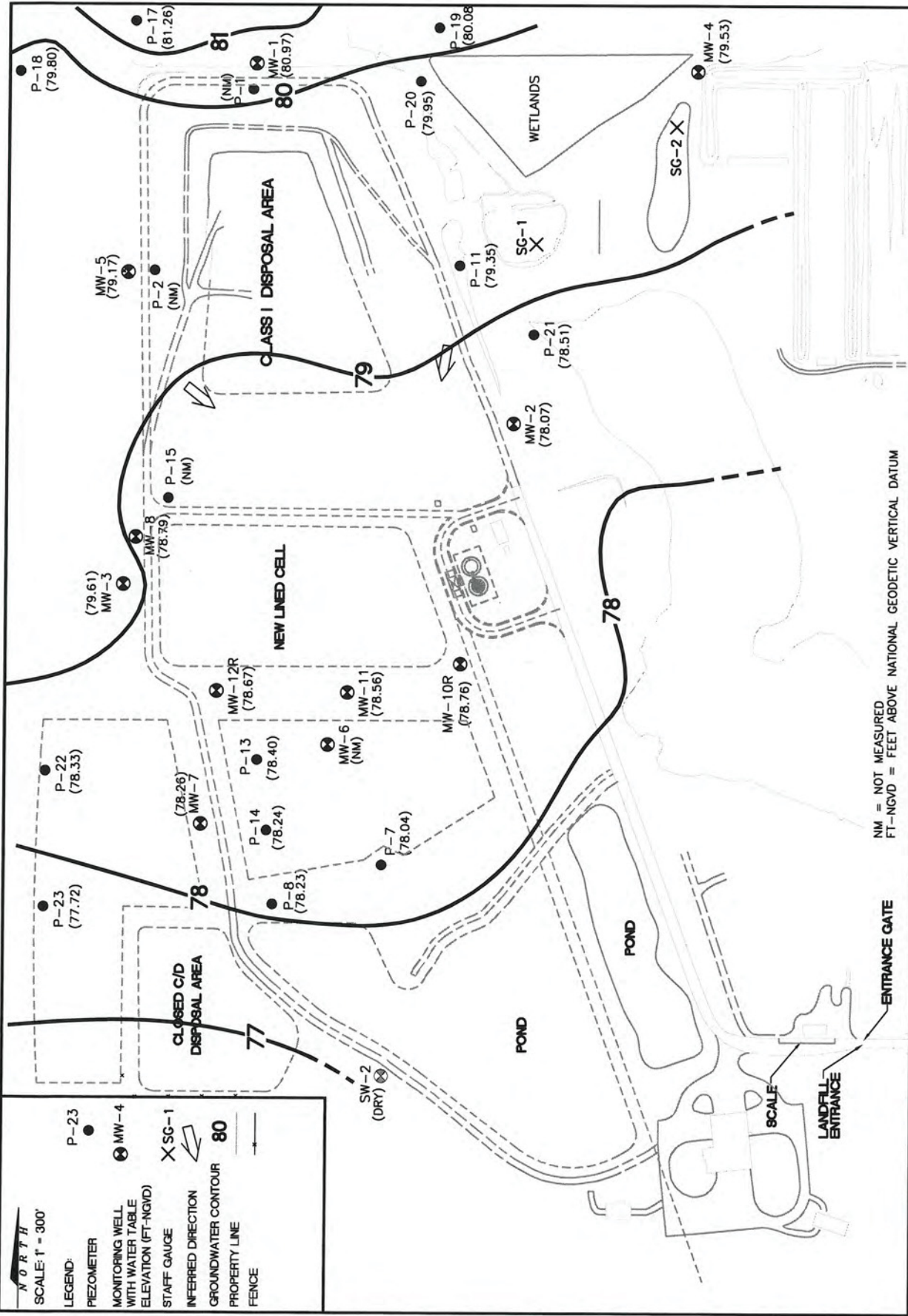
- PIEZOMETER: P-23
- EXIST. MONITORING WELL: MW-4
- EXIST. MONITORING WELL: MW-4
- SURFACE WATER POINT: X
- PROPERTY LINE: —
- FENCE: —

ATKINS

HARDEE COUNTY LANDFILL

MONITORING POINTS

FIGURE 1



WATER TABLE ELEVATION
CONTOUR MAP
SECOND HALF 2013

HARDEE COUNTY
LANDFILL



FIGURE 2

ATTACHMENT A

Ground Water Monitoring Report Form

DEP Form # 62-522.900(2)
Form Title <u>Ground Water Monitoring Report</u>
Effective Date _____
DEP Application No. _____

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 323992400

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name Hardee County Solid Waste Disposal Facility
 Address 685 Airport Road
 City Wauchula, Florida Zip 33873
 Telephone Number (863) 733-5089
- (2) The GMS Identification Number 4025C30001
- (3) DEP Permit Number 38414-011-SO
- (4) Authorized Representative Name Bradley J. Bayne, PG, Atkins
 Address 4030 West Boy Scout Boulevard, Suite 700
 City Tampa, Florida Zip 33607
 Telephone Number (813) 281-8377
- (5) Type of Discharge N/A
- (6) Method of Discharge N/A

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 submitting false information, including the possibility of fine and imprisonment.

Date: 1-31-14 Bradley J. Bayne
 Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # Atkins

Analytical Lab Comp QAP # /HRS Certification # E83018
 *Comp QAP # /HRS Certification # _____

Lab #1: Flowers Chemical Laboratories, Inc. , 481 Newburyport Avenue, Altamonte Springs, FL 32715

Lab #2 _____

Phone Number (407) 339-5984

PART III ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: December 2013

Test Site ID #: _____ Report Period: Second Half 2013
(year/quarter)

Well Name: _____ Well Purged (Y/N): _____

Classification of Ground Water: _____ Well Type: () Background

() Intermediate

() Compliance

() Other

Ground Water Elevation (NGVD): _____

or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
	Please see sampling report, Forms, and laboratory report.						

* Attach Laboratory Reports

ATTACHMENT B

Groundwater Sampling Logs and Field Equipment Calibration Logs

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

SITE NAME: HARDEE COUNTY LANDFILL	SITE LOCATION: 695 AIRPORT ROAD, WAUCHULA, FL
WELL NO: MW-1	SAMPLE ID: MW-1
DATE: 12/26/13	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): 7.00	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) = (12.70 feet - 7.00 feet) X 0.65 gallons/foot = 3.21 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 14:00	PURGING ENDED AT: 15:05	TOTAL VOLUME PURGED (gallons): 5.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (uS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:55	4.00	4.00	0.10	8.95	4.32	24.19	178	2.70	1.77	CLEAR	NONE
15:00	0.50	4.50	0.10	8.95	4.27	24.16	179	2.65	5.8	"	"
15:05	0.50	5.00	0.10	8.95	4.28	24.19	179	2.51	2.36	"	"

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: RAYMONDO CASTRO	SAMPLER(S) SIGNATURE(S): <i>Raymundo Castro</i>	SAMPLING INITIATED AT: 15:06	SAMPLING ENDED AT: 15:07
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: STPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> (N)	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)	TUBING Y <input checked="" type="checkbox"/> (N) (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE CHAIN OF CUSTODY									

REMARKS: _____

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

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: <u>HARDEE COUNTY LANDFILL</u>	SITE LOCATION: <u>685 AIRPORT RD, WAUCHULA, FL</u>
WELL NO: <u>MW-2</u>	DATE: <u>12/26/13</u>

PURGING DATA

WELL DIAMETER (inches): <u>4</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): <u>7.79</u>	PURGE PUMP TYPE OR BAILER: <u>PERISTALTIC</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
= (<u>13.10</u> feet - <u>7.79</u> feet) X <u>0.65</u> gallons/foot = <u>3.95</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
= _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>	PURGING INITIATED AT: <u>11:55</u>	PURGING ENDED AT: <u>12:45</u>	TOTAL VOLUME PURGED (gallons): <u>5.00</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>12:35</u>	<u>4.00</u>	<u>4.00</u>	<u>0.10</u>	<u>9.00</u>	<u>6.87</u>	<u>24.33</u>	<u>500</u>	<u>0.46</u>	<u>2.65</u>	<u>CLEAR</u>	<u>NOVE</u>
<u>12:40</u>	<u>0.50</u>	<u>4.50</u>	<u>0.10</u>	<u>9.00</u>	<u>6.87</u>	<u>24.37</u>	<u>498</u>	<u>0.54</u>	<u>2.48</u>	<u>"</u>	<u>"</u>
<u>12:45</u>	<u>0.50</u>	<u>5.00</u>	<u>0.10</u>	<u>9.00</u>	<u>6.87</u>	<u>24.37</u>	<u>498</u>	<u>0.46</u>	<u>2.45</u>	<u>"</u>	<u>"</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>RAYMUNDO CASTRO</u>			SAMPLER(S) SIGNATURE(S): <u>Raymundo Castro</u>			SAMPLING INITIATED AT: <u>12:46</u>		SAMPLING ENDED AT: <u>12:48</u>	
PUMP OR TUBING DEPTH IN WELL (feet): <u>9</u>			TUBING MATERIAL CODE: <u>5PE</u>			FIELD-FILTERED: <u>Y</u> (N)		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP <u>Y</u> (N)			TUBING <u>Y</u> (N (replaced))			DUPLICATE: <u>Y</u> (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			
<u>SEE CHAIN OF CUSTODY</u>									
REMARKS:									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

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

SITE NAME: HARDEE COUNTY LANDFILL	SITE LOCATION: 685 AIRPORT RD, WAUCHULA, FL
WELL NO: MW-4	SAMPLE ID: MW-4 DATE: 12/26/13

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.63	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) = (21.60 feet - 7.63 feet) X 0.65 gallons/foot = 9.08 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 12:58	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:43	9.00	9.00	0.20	8.02	6.31	24.37	463	0.23	3.63	CLEAR	NONE
13:48	1.00	10.00	0.20	8.02	6.31	24.31	461	0.21	2.88	"	"
13:53	1.00	11.00	0.20	8.02	6.30	24.30	460	0.20	2.63	"	"

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: RAYMUNDO CASTRO			SAMPLER(S) SIGNATURE(S): <i>Raymundo Castro</i>			SAMPLING INITIATED AT: 13:54	SAMPLING ENDED AT: 13:55		
PUMP OR TUBING DEPTH IN WELL (feet): 8			TUBING MATERIAL CODE: 3+PE			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input type="radio"/>			TUBING Y <input checked="" type="radio"/> N (replaced) <input type="radio"/>			DUPLICATE: 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			
SEE CHAIN OF CUSTODY									
REMARKS:									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

Revision Date: February 12, 2009

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

SITE NAME: <u>HARDEE COUNTY LANDFILL</u>	SITE LOCATION: <u>685 AIRPORT ROAD, WAUCHULA, FL</u>
WELL NO: <u>MW-5</u>	SAMPLE ID: <u>MW-5</u> DATE: <u>12/26/13</u>

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>9.59</u>	PURGE PUMP TYPE OR BAILER: <u>PERISTALTIC</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>20.75</u> feet - <u>9.59</u> feet) X <u>0.16</u> gallons/foot = <u>1.76</u> gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT: <u>14:05</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. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>14:25</u>	<u>2.00</u>	<u>2.00</u>	<u>0.10</u>	<u>9.69</u>	<u>5.01</u>	<u>25.50</u>	<u>130</u>	<u>0.90</u>	<u>5.87</u>	<u>NONE</u>	<u>NONE</u>
<u>14:30</u>	<u>0.50</u>	<u>2.50</u>	<u>0.10</u>	<u>9.69</u>	<u>5.04</u>	<u>25.35</u>	<u>132</u>	<u>0.88</u>	<u>5.86</u>	<u>"</u>	<u>"</u>
<u>14:35</u>	<u>0.50</u>	<u>3.00</u>	<u>0.10</u>	<u>9.69</u>	<u>5.05</u>	<u>25.35</u>	<u>132</u>	<u>0.87</u>	<u>5.87</u>	<u>"</u>	<u>"</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>RAYMONDO CASTRO</u>			SAMPLER(S) SIGNATURE(S): <u>Raymondo Castro</u>			SAMPLING INITIATED AT: <u>14:36</u>		SAMPLING ENDED AT: <u>14:37</u>	
PUMP OR TUBING DEPTH IN WELL (feet):			TUBING MATERIAL CODE: <u>S+PE</u>			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			TUBING <input checked="" type="checkbox"/> N (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>SEE CHAIN OF CUSTODY</u>									
REMARKS:									

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

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

SITE NAME: HARDREE COUNTY LANDFILL	SITE LOCATION: 685 AIRPORT ROAD, WAUCHULA, FL
WELL NO: MW-8	SAMPLE ID: MW-8 DATE: 12/26/13

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.19	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) = 13.15 feet - 10.19 feet X 0.16 gallons/foot = 0.47 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 15:40	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
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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. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:50	1.00	1.00	0.10	11.22	5.80	27.23	624	0.32	4.97	CLEAR	NONE
15:55	0.50	1.50	0.10	11.22	5.81	27.25	624	0.29	4.32	"	"
16:00	0.50	2.00	0.10	11.22	5.81	27.25	624	0.29	4.00	"	"

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: RAYMUNDO CASTRO	SAMPLER(S) SIGNATURE(S): <i>Raymundo Castro</i>	SAMPLING INITIATED AT: 16:01	SAMPLING ENDED AT: 16:03
PUMP OR TUBING DEPTH IN WELL (feet): 11	TUBING MATERIAL CODE: S + PE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE CHAIN OF CUSTODY									

REMARKS:

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

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: HARDEE COUNTY LANDFILL	SITE LOCATION: 605 AIRPORT ROAD, WAUCHULA, FL
WELL NO: MW-10R	SAMPLE ID: MW-10R
DATE: 12/27/13	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.80	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) = (23.08 feet - 9.80 feet) X 0.16 gallons/foot = 2.24 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 8:42	PURGING ENDED AT: 9:17	TOTAL VOLUME PURGED (gallons): 3.50
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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. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:07	2.50	2.50	0.10	10.15	5.92	24.62	395	0.22	2.52	CLEAR	NONE
9:12	0.50	3.00	0.10	10.15	5.91	24.64	384	0.22	1.90	"	"
9:17	0.50	3.50	0.10	10.15	5.92	24.63	384	0.22	1.74	"	"

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: RAYMUNDO CASTRO	SAMPLER(S) SIGNATURE(S): <i>Raymundo Castro</i>	SAMPLING INITIATED AT: 9:18	SAMPLING ENDED AT: 9:20
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: STPF	FIELD-FILTERED: Y <input type="radio"/> N <input checked="" type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> TUBING <input checked="" type="radio"/> N (replaced)	DUPLICATE: 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			

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
 Revision Date: February 12, 2009

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

SITE NAME: HARDEE COUNTY LANDFILL	SITE LOCATION: 685 AIRPORT ROAD, WAUCHULA, FL
WELL NO.: MW-11	SAMPLE ID: MW-11
DATE: 12/27/13	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.55	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) = (13.90 feet - 9.55 feet) X 0.16 gallons/foot = 0.70 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 8:10	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
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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. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:20	1.00	1.00	0.10	9.75	4.79	23.72	41	1.60	3.78	CLEAR	NONE
8:25	0.50	1.50	0.10	9.75	4.80	23.79	40	1.50	3.80	"	"
8:30	0.50	2.00	0.10	9.75	4.79	23.80	40	1.49	3.88	"	"

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: RAYMONDO CASTRO	SAMPLER(S) SIGNATURE(S): Raymondo Castro	SAMPLING INITIATED AT: 8:31	SAMPLING ENDED AT: 8:33
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SEE CHAIN OF CUSTODY									

REMARKS:

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

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: HARDEE COUNTY LANDFILL	SITE LOCATION: 685 AIRPORT ROAD, WAUCHULA, FL
WELL NO: MW-12R	SAMPLE ID: MW-12R
DATE: 12/26/13	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.33	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) = (23.04 feet - 10.33 feet) X 0.16 gallons/foot = 2.03 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 16:10	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
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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. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:35	2.50	2.50	0.10	11.69	6.19	24.99	512	1.40	6.48	CLEAR	NOISE
16:40	0.50	3.00	0.10	11.69	6.20	24.99	512	1.40	3.05	"	"
16:45	0.50	3.50	0.10	11.69	6.20	24.99	512	1.39	1.43	"	"

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: RAYMUNDO CASTRO	SAMPLER(S) SIGNATURE(S): <i>Raymundo Castro</i>	SAMPLING INITIATED AT: 16:46	SAMPLING ENDED AT: 16:48
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input type="radio"/> N <input type="radio"/>	TUBING <input checked="" type="radio"/> N (replaced)	DUPLICATE: Y <input type="radio"/> N <input checked="" 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			
SEE CHAIN OF CUSTODY									

REMARKS:

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

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

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

SITE NAME: HARDEE COUNTY LANDFILL		SITE LOCATION: 685 AIRPORT ROAD WAUCHULA FL	
WELL NO: MH-9	SAMPLE ID: MH-9	DATE: 12/27/13	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.87	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)				
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): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 9:37	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
--	--	-----------------------------------	-------------------	--------------------------------

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:42	1.00	1.00	0.20		6.14	25.64	1172	0.15	24.5	CLEAR	NONE
9:47	1.00	2.00	0.20		6.14	25.65	1172	0.15	21.3	"	"

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: KAYMUNDO CASTRO	SAMPLER(S) SIGNATURE(S): <i>Kaymundo Castro</i>	SAMPLING INITIATED AT: 9:48	SAMPLING ENDED AT: 9:53
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: S+PE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
				SEE CHAIN OF CUSTODY					

REMARKS:

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

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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

Revision Date: February 12, 2009

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) HANNA TURBIDITY INSTRUMENT # 08563204
 PARAMETER: [check only one] METER HI98703 RENTED FROM CYCLONE INSTRUMENTS
 TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A < 0.1 NTU

Standard B 15 NTU

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/26/13	12:00	A	<0.1	0.06	<0.1	YES	INIT.	RGC
12/26/13	12:00	B	15	15	<0.1	YES	INIT.	RGC
12/27/13	9:03	A	<0.1	0.04	<0.1	YES	INIT.	RGC
12/27/13	9:03	B	15	14.99	<0.1	YES	INIT	RGC

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI MODEL 556 INSTRUMENT # 1110K100957
PARAMETER: [check only one] RENTED FROM CYCLONE INSTRUMENTS.

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
- TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 100%

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/26/13	11:54	A	100	100.3	<0.1	YES	INIT.	RGC
12/27/13	9:00	A	100	100.6	<0.1	YES	INIT.	RGC

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI MODEL 556 INSTRUMENT # 1110K100957
 PARAMETER: [check only one] RENTED FROM CYCLONE INSTRUMENTS.

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A pH 4
 Standard B pH 7
 Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/26/13	11:50	A	4	4.01	<0.1%	YES	INIT.	RGC
12/26/13	11:50	B	7	6.99	<0.1%	YES	INIT.	RGC
12/27/13	8:58	A	4	4.00	<0.1%	YES	INIT.	RGC
12/27/13	8:58	B	7	6.98	<0.1%	YES	INIT.	RGC

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI MODEL 556 INSTRUMENT # 1110K100957
 PARAMETER: [check only one] RENTED FROM CYCLONE INSTRUMENTS.

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CL DO OTHER _____

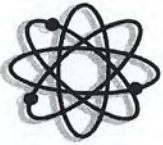
STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 1500 uS
 Standard B _____
 Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
<u>12/26/13</u>	<u>11:45</u>	<u>A</u>	<u>1500</u>	<u>1499</u>	<u><0.1%</u>	<u>YES</u>	<u>INIT</u>	<u>RGC</u>
<u>12/27/13</u>	<u>8:55</u>	<u>A</u>	<u>1500</u>	<u>1500</u>	<u><0.1%</u>	<u>YES</u>	<u>INIT</u>	<u>RGC</u>

ATTACHMENT C

Groundwater and Leachate Laboratory Analytical Reports



FLOWERS CHEMICAL LABORATORIES INC.

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Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Report Summary

Date Received: Dec 27, 2013

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix			
224462GW1	MW #1/296	EPA350.1	PCW	Main Lab	Ground Water			
		EPA353.2	VLB	Main Lab				
		EPA6010	EVB	Main Lab				
		EPA6020	EVB	Main Lab				
		EPA7470	EVB	Main Lab				
		EPA8011	DLJ	Main Lab				
		EPA8260	CLS	Main Lab				
		FT1000	RJC	Main Lab				
		FT1100	RJC	Main Lab				
		FT1200	RJC	Main Lab				
		FT1400	RJC	Main Lab				
		FT1500	RJC	Main Lab				
		FT1600	RJC	Main Lab				
		SM2540 C	PLB	Main Lab				
		SM4500-CI E	MAC	Main Lab				
		224462GW2	MW #2/297	EPA350.1		PCW	Main Lab	Ground Water
				EPA353.2		VLB	Main Lab	
EPA6010	EVB			Main Lab				
EPA6020	EVB			Main Lab				
EPA7470	EVB			Main Lab				
EPA8011	DLJ			Main Lab				
EPA8260	CLS			Main Lab				
FT1000	RJC			Main Lab				
FT1100	RJC			Main Lab				
FT1200	RJC			Main Lab				
FT1400	RJC			Main Lab				
FT1500	RJC			Main Lab				
FT1600	RJC			Main Lab				
SM2540 C	PLB			Main Lab				
SM4500-CI E	MAC			Main Lab				
224462GW3	MW #4/299			EPA350.1	PCW	Main Lab	Ground Water	
				EPA353.2	VLB	Main Lab		
		EPA6010	EVB	Main Lab				
		EPA6020	EVB	Main Lab				
		EPA7470	EVB	Main Lab				
		EPA8011	DLJ	Main Lab				
		EPA8260	CLS	Main Lab				
		FT1000	RJC	Main Lab				
		FT1100	RJC	Main Lab				
		FT1200	RJC	Main Lab				
		FT1400	RJC	Main Lab				
		FT1500	RJC	Main Lab				



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Tampa, FL 33607

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Client Project #: HARDEE COUNTY REGIONAL LAN
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224462GW4	MW #5/300	FT1600	RJC	Main Lab	Ground Water
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	MAC	Main Lab	
		EPA350.1	PCWB	Main Lab	
		EPA353.2	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
FT1500	RJC	Main Lab			
FT1600	RJC	Main Lab			
224462GW5	MW-8/19255	SM2540 C	PLB	Main Lab	Ground Water
		SM4500-CI E	MAC	Main Lab	
		EPA350.1	PCWB	Main Lab	
		EPA353.2	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
FT1600	RJC	Main Lab			
224462GW6	MW-10R/22930	SM2540 C	PLB	Main Lab	Ground Water
		SM4500-CI E	MAC	Main Lab	
		EPA350.1	PCWB	Main Lab	
		EPA353.2	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
FT1600	RJC	Main Lab			
SM2540 C	PLB	Main Lab			



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224462GW7	MW-11/21882	SM4500-CI E	MAC	Main Lab	Ground Water
		EPA350.1	PCW	Main Lab	
		EPA353.2	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	MAC	Main Lab	
224462GW8	MW-12R/22931	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	MAC	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Analysis Report

Lab #: 224462GW1 Sampled: 12/26/13 03:06 PM Desc: MW #1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	10.8	mg/L	1.00	4.00	8.00	10197567	SM4500-CIE	16887-00-6	01/07/14
Nitrate (as N)	0.0367	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:02 PM
Field Ground Water Elevation	81.0	ft	1.00	-10.0	-10.0	10239967	FT1000		12/26/13
Field pH (units)	4.28	pH	1.00	0.0100	0.0200	10239967	FT1100	C006	12/26/13
Field Conductivity	179	umhos/cm	1.00	0.100	0.100	10239967	FT1200		12/26/13
Field Temp. (C)	24.2	oC	1.00	0.100	0.100	10239967	FT1400		12/26/13
Field DO	2.51	mg/L	1.00	0.100	0.100	10239967	FT1500		12/26/13
Field Turbidity	2.36	NTU	1.00	0.100	0.100	10239967	FT1600		12/26/13
Iron	10.4	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	11.4	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14



FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597
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3980 Overseas Hwy Suite 103, Marathon FL 33050

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Phone: 772-343-8006 / Fax: 772-343-8089
Phone: 850-973-6878 / Fax: 850-973-6878
Phone: 305-743-8598 / Fax: 305-743-8598

E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 26, 2013

Jan 7, 2014; Invoice: 224462

Lab #: 224462GW1 Sampled: 12/26/13 03:06 PM Desc: MW #1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr:1,2-Dichloroethane-d4 (77-129%)	103.40%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
Surr:Bromofluorobenzene (70-122%)	111.50%		1.00	1.00	1.00	10240192	EPA8260	460-00-4	01/02/14



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW1 Sampled: 12/26/13 03:06 PM Desc: MW #1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Surr:Toluene-d8 (80-120%)	89.40%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	096-18-4	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	106-93-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	96-12-8	01/02/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.000400	10240309	EPA7470	7439-97-6	01/06/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7664-41-7	01/06/14
TDS	196	mg/L	1.00	2.50	5.00	10240624	SM2540 C	10-33-3	12/28/13
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	7440-36-0	12/30/13
Arsenic	0.00406	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.0132	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00872	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00612	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00441	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.0241	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13

Lab #: 224462GW2 Sampled: 12/26/13 12:46 PM Desc: MW #2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	17.1	mg/L	1.00	4.00	8.00	10197567	SM4500-CIE	16887-00-6	01/07/14
Nitrate(as N)	0.321	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:03 PM
Field Ground Water Elevation	78.1	ft	1.00	-10.0	-10.0	10239967	FT1000		12/26/13
Field pH (units)	6.87	pH	1.00	0.0100	0.0200	10239967	FT1100	C006	12/26/13



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW2 Sampled: 12/26/13 12:46 PM Desc: MW #2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Field Conductivity	498	umhos/cm	1.00	0.100	0.100	10239967	FT1200		12/26/13
Field Temp. (C)	24.4	oC	1.00	0.100	0.100	10239967	FT1400		12/26/13
Field DO	0.460	mg/L	1.00	0.100	0.100	10239967	FT1500		12/26/13
Field Turbidity	2.45	NTU	1.00	0.100	0.100	10239967	FT1600		12/26/13
Iron	0.529	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	15.1	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW2 Sampled: 12/26/13 12:46 PM Desc: MW #2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	100-41-4	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr: 1,2-Dichloroethane-d4 (77-129%)	104.90%		1.00	0.0100	0.0100	10240192	EPA8260		
Surr: Bromofluorobenzene (70-122%)	110.80%		1.00	1.00	1.00	10240192	EPA8260		
Surr: Toluene-d8 (80-120%)	89.10%		1.00	0.0100	0.0100	10240192	EPA8260		
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	460-00-4	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	096-18-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	106-93-4	01/02/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10240309	EPA7470	96-12-8	01/02/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7439-97-6	01/06/14
								7664-41-7	01/06/14



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PO #: 40612
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Lab #: 224462GW2 Sampled: 12/26/13 12:46 PM Desc: MW #2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	262	mg/L	1.00	2.50	5.00	10240624	SM2540 C	10-33-3	12/28/13
Antimony	0.00200	U	1.00	0.00200	0.00800	10240633	EPA6020	7440-36-0	12/30/13
Arsenic	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.0134	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500	U	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200	U	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500	U	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100	U	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.00259	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100	U	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13

Lab #: 224462GW3 Sampled: 12/26/13 01:54 PM Desc: MW #4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	7.67	l	1.00	4.00	8.00	10197567	SM4500-CI E	16887-00-6	01/07/14
Nitrate(as N)	0.0100	U	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:04 PM
Field Ground Water Elevation	79.5	ft	1.00	-10.0	-10.0	10239967	FT1000		12/26/13
Field pH (units)	6.30	pH	1.00	0.0100	0.0200	10239967	FT1100	C006	12/26/13
Field Conductivity	460	umhos/cm	1.00	0.100	0.100	10239967	FT1200		12/26/13
Field Temp. (C)	24.3	oC	1.00	0.100	0.100	10239967	FT1400		12/26/13
Field DO	0.200	mg/L	1.00	0.100	0.100	10239967	FT1500		12/26/13
Field Turbidity	2.63	NTU	1.00	0.100	0.100	10239967	FT1600		12/26/13
Iron	15.6	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	8.69	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13



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E83018 (Main Lab)
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW3 Sampled: 12/26/13 01:54 PM Desc: MW #4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW3 Sampled: 12/26/13 01:54 PM Desc: MW #4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	3.71	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr: 1,2-Dichloroethane-d4 (77-129%)	107.10%		1.00	0.0100	0.0100	10240192	EPA8260	460-00-4	01/02/14
Surr: Bromofluorobenzene (70-122%)	111.80%		1.00	1.00	1.00	10240192	EPA8260	096-18-4	01/02/14
Surr: Toluene-d8 (80-120%)	89.90%		1.00	0.0100	0.0100	10240192	EPA8260	106-93-4	01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	96-12-8	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	7439-97-6	01/06/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	7664-41-7	01/06/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10240309	EPA7470	10-33-3	12/28/13
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7440-36-0	12/30/13
TDS	344	mg/L	1.00	2.50	5.00	10240624	SM2540 C	7440-38-2	12/30/13
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	7440-39-3	12/30/13
Arsenic	0.0156	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-41-7	12/30/13
Barium	0.0124	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-43-9	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020		
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020		



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW3 Sampled: 12/26/13 01:54 PM Desc: MW #4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chromium	0.00627	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.0182	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13

Lab #: 224462GW4 Sampled: 12/26/13 02:36 PM Desc: MW #5/300

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	4.00 U	mg/L	1.00	4.00	8.00	10197567	SM4500-Cl E	16887-00-6	01/07/14
Nitrate(as N)	0.0261	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:05 PM
Field Ground Water Elevation	79.2	ft	1.00	-10.0	-10.0	10239967	FT1000		12/26/13
Field pH (units)	5.05	pH	1.00	0.0100	0.0200	10239967	FT1100	C006	12/26/13
Field Conductivity	132	umhos/cm	1.00	0.100	0.100	10239967	FT1200		12/26/13
Field Temp. (C)	25.4	oC	1.00	0.100	0.100	10239967	FT1400		12/26/13
Field DO	0.870	mg/L	1.00	0.100	0.100	10239967	FT1500		12/26/13
Field Turbidity	5.87	NTU	1.00	0.100	0.100	10239967	FT1600		12/26/13
Iron	3.07	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	4.53	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW4 Sampled: 12/26/13 02:36 PM Desc: MW #5/300

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14



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PO #: 40612
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Lab #: 224462GW4 Sampled: 12/26/13 02:36 PM Desc: MW #5/300

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr: 1,2-Dichloroethane-d4 (77-129%)	104.40%		1.00	0.0100	0.0100	10240192	EPA8260	460-00-4	01/02/14
Surr: Bromofluorobenzene (70-122%)	110.10%		1.00	1.00	1.00	10240192	EPA8260		01/02/14
Surr: Toluene-d8 (80-120%)	90.00%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	096-18-4	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	106-93-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	96-12-8	01/02/14
Mercury	0.000224	mg/L	1.00	0.0000200	0.0000400	10240309	EPA7470	7439-97-6	01/06/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7664-41-7	01/06/14
TDS	70.0	mg/L	1.00	2.50	5.00	10240624	SM2540 C	10-33-3	12/28/13
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	7440-36-0	12/30/13
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.00238 I	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13



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E83018 (Main Lab)
E86562 (South Lab)
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW4 Sampled: 12/26/13 02:36 PM Desc: MW #5/300

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Silver	0.00500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13

Lab #: 224462GW5 Sampled: 12/26/13 04:01 PM Desc: MW-8/19255

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	17.1	mg/L	1.00	4.00	8.00	10197567	SM4500-Cl E	16887-00-6	01/07/14
Nitrate(as N)	0.0198 I	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:07 PM
Field Ground Water Elevation	78.8	ft	1.00	-10.0	-10.0	10239967	FT1000		12/26/13
Field pH (units)	5.81	pH	1.00	0.0100	0.0200	10239967	FT1100	C006	12/26/13
Field Conductivity	624	umhos/cm	1.00	0.100	0.100	10239967	FT1200		12/26/13
Field Temp. (C)	27.3	oC	1.00	0.100	0.100	10239967	FT1400		12/26/13
Field DO	0.290	mg/L	1.00	0.100	0.100	10239967	FT1500		12/26/13
Field Turbidity	4.00	NTU	1.00	0.100	0.100	10239967	FT1600		12/26/13
Iron	8.94	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	14.4	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14



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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW5 Sampled: 12/26/13 04:01 PM Desc: MW-8/19255

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Benzene	3.21	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14



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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW5 Sampled: 12/26/13 04:01 PM Desc: MW-8/19255

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr:1,2-Dichloroethane-d4 (77-129%)	105.60%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
Surr:Bromofluorobenzene (70-122%)	110.00%		1.00	1.00	1.00	10240192	EPA8260	460-00-4	01/02/14
Surr:Toluene-d8 (80-120%)	89.00%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	096-18-4	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	106-93-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	96-12-8	01/02/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10240309	EPA7470	7439-97-6	01/06/14
Ammonia (as N)	2.49	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7664-41-7	01/06/14
TDS	334	mg/L	1.00	2.50	5.00	10240624	SM2540 C	10-33-3	12/28/13
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	7440-36-0	12/30/13
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.00333 I	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.00247	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13



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 Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 26, 2013

Jan 7, 2014; Invoice: 224462

Lab #: 224462GW6 Sampled: 12/27/13 09:18 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	11.4	mg/L	1.00	4.00	8.00	10197567	SM4500-CIE	16887-00-6	01/07/14
Nitrate(as N)	0.0310	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:08 PM
Field Ground Water Elevation	78.8	ft	1.00	-10.0	-10.0	10239971	FT1000		12/27/13
Field pH (units)	5.92	pH	1.00	0.0100	0.0200	10239971	FT1100	C006	12/27/13
Field Conductivity	384	umhos/cm	1.00	0.100	0.100	10239971	FT1200		12/27/13
Field Temp. (C)	24.6	oC	1.00	0.100	0.100	10239971	FT1400		12/27/13
Field DO	0.220	mg/L	1.00	0.100	0.100	10239971	FT1500		12/27/13
Field Turbidity	1.74	NTU	1.00	0.100	0.100	10239971	FT1600		12/27/13
Iron	27.7	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	17.0	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14



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E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW6 Sampled: 12/27/13 09:18 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr:1,2-Dichloroethane-d4 (77-129%)	110.30%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
Surr:Bromofluorobenzene (70-122%)	113.40%		1.00	1.00	1.00	10240192	EPA8260	460-00-4	01/02/14
Surr:Toluene-d8 (80-120%)	90.20%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	096-18-4	01/02/14



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PO #: 40612
 Client Project #: HARDEE COUNTY REGIONAL LAN
 Date Sampled: Dec 26, 2013
 Jan 7, 2014; Invoice: 224462

Lab #: 224462GW6 Sampled: 12/27/13 09:18 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	106-93-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	96-12-8	01/02/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10240309	EPA7470	7439-97-6	01/06/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7664-41-7	01/06/14
TDS	208	mg/L	1.00	2.50	5.00	10240624	SM2540 C	10-33-3	12/28/13
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	7440-36-0	12/30/13
Arsenic	0.00247	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.0147	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13

Lab #: 224462GW7 Sampled: 12/27/13 08:31 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	4.00 U	mg/L	1.00	4.00	8.00	10197567	SM4500-Cl E	16887-00-6	01/07/14
Nitrate(as N)	0.0384	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 03:59 PM
Field Ground Water Elevation	78.6	ft	1.00	-10.0	-10.0	10239971	FT1000		12/27/13
Field pH (units)	4.79	pH	1.00	0.0100	0.0200	10239971	FT1100	C006	12/27/13
Field Conductivity	40.0	umhos/cm	1.00	0.100	0.100	10239971	FT1200		12/27/13
Field Temp. (C)	23.8	oC	1.00	0.100	0.100	10239971	FT1400		12/27/13



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW7 Sampled: 12/27/13 08:31 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Field DO	1.49	mg/L	1.00	0.100	0.100	10239971	FT1500		12/27/13
Field Turbidity	3.88	NTU	1.00	0.100	0.100	10239971	FT1600		12/27/13
Iron	0.234	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	3.09	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW7 Sampled: 12/27/13 08:31 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr:1,2-Dichloroethane-d4 (77-129%)	112.10%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
Surr:Bromofluorobenzene (70-122%)	110.90%		1.00	1.00	1.00	10240192	EPA8260		01/02/14
Surr:Toluene-d8 (80-120%)	90.50%		1.00	0.0100	0.0100	10240192	EPA8260		01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	460-00-4	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	096-18-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	106-93-4	01/02/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10240309	EPA7470	96-12-8	01/02/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240351	EPA350.1	7439-97-6	01/06/14
TDS	4.00 I	mg/L	1.00	2.50	5.00	10240624	SM2540 C	7664-41-7	01/06/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	10-33-3	12/28/13
								7440-36-0	12/30/13



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Lab #: 224462GW7 Sampled: 12/27/13 08:31 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.00544	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.00244	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13

Lab #: 224462GW8 Sampled: 12/26/13 04:46 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	4.00 U	mg/L	1.00	4.00	8.00	10197567	SM4500-Cl E	16887-00-6	01/07/14
Nitrate(as N)	0.0191 I	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:09 PM
Field Ground Water Elevation	78.7	ft	1.00	-10.0	-10.0	10239967	FT1000		12/26/13
Field pH (units)	6.20	pH	1.00	0.0100	0.0200	10239967	FT1100	C006	12/26/13
Field Conductivity	512	umhos/cm	1.00	0.100	0.100	10239967	FT1200		12/26/13
Field Temp. (C)	25.0	oC	1.00	0.100	0.100	10239967	FT1400		12/26/13
Field DO	1.39	mg/L	1.00	0.100	0.100	10239967	FT1500		12/26/13
Field Turbidity	1.43	NTU	1.00	0.100	0.100	10239967	FT1600		12/26/13
Iron	0.0587	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	5.20	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-55-6	01/02/14



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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612

Client Project #: HARDEE COUNTY REGIONAL LAN

Date Sampled: Dec 26, 2013

Jan 7, 2014; Invoice: 224462

Lab #: 224462GW8 Sampled: 12/26/13 04:46 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-35-4	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240192	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	78-87-5	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	67-64-1	01/02/14
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240192	EPA8260	107-13-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240192	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240192	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	56-23-5	01/02/14
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	74-87-3	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240192	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	074-95-3	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-41-4	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	074-88-4	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	108-10-1	01/02/14
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	106-46-7	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	100-42-5	01/02/14



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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW8 Sampled: 12/26/13 04:46 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	127-18-4	01/02/14
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240192	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240192	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-01-5	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	156-60-5	01/02/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240192	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240192	EPA8260	110-57-6	01/02/14
Surr:1,2-Dichloroethane-d4 (77-129%)	109.40%								
Surr:Bromofluorobenzene (70-122%)	110.40%								
Surr:Toluene-d8 (80-120%)	89.90%								
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0100	0.0100	10240192	EPA8260	460-00-4	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0100	10240192	EPA8011	096-18-4	01/02/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	106-93-4	01/02/14
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10240217	EPA8011	96-12-8	01/02/14
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10240309	EPA7470	7439-97-6	01/06/14
TDS	320	mg/L	1.00	2.50	5.00	10240351	EPA350.1	7664-41-7	01/06/14
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240624	SM2540 C	10-33-3	12/28/13
Arsenic	0.00254	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-36-0	12/30/13
Barium	0.00341 I	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-38-2	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-39-3	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-41-7	12/30/13
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
								7440-48-4	12/30/13



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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Lab #: 224462GW8 Sampled: 12/26/13 04:46 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Vanadium	0.00362	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13



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Quality Report

Quality Control Batch: 10197567

Analyst: MAC

Result	Units	Spike	%REC	%REC Lim	Sample	RPD Lim
Blank Chloride	4.00U					
Laboratory Control Sample Chloride	48.8	50.0	97.58	90.00-110.00		
Matrix Spike Chloride	50.0	50.0	96.24	80.00-120.00	1.91	
Matrix Spike Duplicate Chloride	47.7	50.0	91.66	80.00-120.00	1.91	20.00

Quality Control Batch: 10239943

Analyst: VLB

Result	Units	Spike	%REC	%REC Lim	Sample	RPD Lim
Blank Nitrate(as N)	0.0100U					
Laboratory Control Sample Nitrate(as N)	2.10	2.00	105.00	90.00-110.00		
Matrix Spike Nitrate(as N)	4.21	4.00	104.26	80.00-120.00	0.0394	
Matrix Spike Duplicate Nitrate(as N)	4.14	4.00	102.51	80.00-120.00	0.0394	20.00



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Quality Control Batch: 10239991

Analyst: EVB

Result	Units
0.0100U	mg/L
0.500U	mg/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
5.05	mg/L	5.00	100.95	81.21-113.54
9.56	mg/L	10.0	95.55	78.62-112.15

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
10.4	mg/L	10.0	101.98	57.02-147.60	0.215
124	mg/L	5.00	116.34	37.63-161.64	118

Matrix Spike Duplicate

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
10.3	mg/L	10.0	100.88	57.02-147.60	0.215	1.06	19.53
124	mg/L	5.00	107.82	37.63-161.64	118	0.34	19.20

Quality Control Batch: 10240192

Analyst: CLS

Result	Units
5.00U	ug/L
0.300U	ug/L
0.500U	ug/L
0.100U	ug/L
0.100U	ug/L
0.500U	ug/L
0.500U	ug/L
1.00U	ug/L
0.500U	ug/L
0.500U	ug/L
0.500U	ug/L
0.500U	ug/L
0.500U	ug/L



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Quality Control Batch: 10240192

Analyst: CLS

Blank	Result	Units
Chloromethane	0.500U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Methyl iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methylene chloride	1.00U	ug/L
o-dichlorobenzene	0.500U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
trans-1,2-dichloroethene	0.500U	ug/L
trans-1,3,-Dichloropropene	0.500U	ug/L
trans-1,4-dichloro-2-butene	0.500U	ug/L
Trichloroethene	1.00U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	5.00U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	1.00U	ug/L
1,1,1,2-Tetrachloroethane	0.500U	ug/L
1,1,1-Trichloroethane	0.500U	ug/L
1,1,2,2-Tetrachloroethane	0.100U	ug/L
1,1,2-Trichloroethane	0.500U	ug/L
1,1-Dichloroethane	0.500U	ug/L
1,1-Dichloroethene	0.500U	ug/L
1,2-dichloroethane	0.500U	ug/L



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Quality Control Batch: 10240192

Analyst: CLS

Blank	Result	Units
1,2-dichloropropane	0.200U	ug/L
2-Butanone (MEK)	0.500U	ug/L
2-Hexanone	0.500U	ug/L
Surr: Bromofluorobenzene	11.4	ug/L
Surr: Toluene-d8	8.83	ug/L
Surr: 1,2-Dichloroethane-d4	10.2	ug/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
Acetone	13.3	10.0	133.10	38.88-162.52
Acrylonitrile	9.21	10.0	92.10	40.32-146.67
Benzene	10.7	10.0	106.90	69.86-134.08
Bromochloromethane	10.6	10.0	105.90	73.37-125.03
Bromodichloromethane	10.4	10.0	103.60	73.69-129.06
Bromoform	9.11	10.0	91.10	66.50-120.60
Bromomethane	8.32	10.0	83.20	52.06-149.03
Carbon Disulfide	10.8	10.0	107.80	72.42-160.65
Carbon Tetrachloride	10.6	10.0	106.00	69.24-130.87
Chlorobenzene	10.3	10.0	103.00	76.12-122.63
Chloroethane	10.1	10.0	100.70	54.48-148.84
Chloroform	10.8	10.0	108.40	70.86-132.14
Chloromethane	9.79	10.0	97.90	53.66-151.98
cis-1,2-dichloroethene	9.64	10.0	96.40	72.17-127.13
cis-1,3-Dichloropropene	8.90	10.0	89.00	72.26-128.63
Dibromochloromethane	9.66	10.0	96.60	72.48-118.93
Dibromomethane	10.5	10.0	105.00	76.53-123.91
Ethylbenzene	10.2	10.0	102.20	70.56-124.95
Methyl Iodide	8.93	10.0	89.30	55.71-163.66
Methyl isobutyl ketone	8.31	10.0	83.10	50.12-132.13
Methylene chloride	12.1	10.0	120.60	40.69-151.61



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E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Quality Control Batch: 10240192 Analyst: CLS

Laboratory Control Sample

Sample	Result	Units	Spike	%REC	%REC Lim
o-dichlorobenzene	9.52	ug/L	10.0	95.20	59.80-127.24
Para-dichlorobenzene	9.74	ug/L	10.0	97.40	59.80-127.16
Styrene	9.03	ug/L	10.0	90.30	64.43-121.79
Tetrachloroethene	13.6	ug/L	10.0	135.70	49.80-173.40
Toluene	10.7	ug/L	10.0	107.30	75.34-126.10
trans-1,2-dichloroethene	10.4	ug/L	10.0	104.10	69.34-133.94
trans-1,3,-Dichloropropene	9.51	ug/L	10.0	95.10	69.36-124.24
Trichloroethene	10.2	ug/L	10.0	102.30	70.68-139.87
Trichlorofluoromethane	9.94	ug/L	10.0	99.40	44.99-156.60
Vinyl chloride	10.4	ug/L	10.0	103.90	56.53-148.31
Xylenes	29.6	ug/L	30.0	98.60	70.92-123.99
1,1,1,2-Tetrachloroethane	10.4	ug/L	10.0	103.50	72.36-126.72
1,1,1-Trichloroethane	10.7	ug/L	10.0	106.70	72.34-131.71
1,1,2,2-Tetrachloroethane	9.50	ug/L	10.0	95.00	73.03-130.21
1,1,2-Trichloroethane	10.0	ug/L	10.0	100.20	78.01-120.70
1,1-Dichloroethane	10.6	ug/L	10.0	105.80	68.89-133.90
1,1-Dichloroethene	9.81	ug/L	10.0	98.10	57.83-149.70
1,2-dichloroethane	10.8	ug/L	10.0	107.50	71.63-130.49
1,2-dichloropropane	10.4	ug/L	10.0	103.80	72.07-128.11
2-Butanone (MEK)	8.81	ug/L	10.0	88.10	59.03-164.47
2-Hexanone	8.23	ug/L	10.0	82.30	60.06-141.22
Surr:Bromofluorobenzene	10.1	ug/L	10.0	100.90	70.00-122.32
Surr:Toluene-d8	9.77	ug/L	10.0	97.70	80.00-120.00
Surr:1,2-Dichloroethane-d4	10.4	ug/L	10.0	104.00	77.68-129.99
Matrix Spike	Result	Units	Spike	%REC	%REC Lim
Acetone	20.2	ug/L	20.0	101.00	46.01-156.32
Acrylonitrile	18.1	ug/L	20.0	90.35	43.40-147.39
Benzene	20.8	ug/L	20.0	103.95	74.48-134.24
					Sample
					5.00U
					0.300U
					0.500U



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PO #: 40612
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Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Matrix Spike	Quality Control Batch: 10240192	Analyst: CLS	Result	Units	Spike	%REC	%REC Lim	Sample
Bromochloromethane			20.6	ug/L	20.0	102.85	73.98-126.75	0.100U
Bromodichloromethane			20.8	ug/L	20.0	103.85	74.51-131.60	0.100U
Bromoform			18.7	ug/L	20.0	93.45	65.77-126.66	0.500U
Bromomethane			19.4	ug/L	20.0	96.90	45.79-154.07	0.500U
Carbon Tetrachloride			21.9	ug/L	20.0	109.35	69.71-134.11	0.500U
Chlorobenzene			20.2	ug/L	20.0	100.90	78.18-124.63	0.500U
Chloroethane			19.2	ug/L	20.0	95.80	57.96-148.61	0.500U
Chloroform			21.3	ug/L	20.0	106.55	67.52-139.02	0.500U
Chloromethane			18.0	ug/L	20.0	90.15	51.30-156.78	0.500U
cis-1,2-dichloroethene			20.6	ug/L	20.0	103.20	76.64-126.84	0.200U
cis-1,3-Dichloropropene			19.7	ug/L	20.0	98.40	67.26-137.96	0.500U
Dibromochloromethane			19.6	ug/L	20.0	98.10	73.00-123.23	0.400U
Dibromomethane			19.7	ug/L	20.0	98.35	73.11-128.50	0.500U
Ethylbenzene			21.0	ug/L	20.0	105.00	73.91-128.64	0.500U
Methyl iodide			27.0	ug/L	20.0	135.00	54.23-165.25	1.00U
Methyl isobutyl ketone			18.3	ug/L	20.0	91.45	57.64-133.07	1.00U
Methylene chloride			20.1	ug/L	20.0	100.40	50.29-142.90	1.00U
o-dichlorobenzene			19.1	ug/L	20.0	95.50	71.04-127.37	0.500U
Para-dichlorobenzene			19.4	ug/L	20.0	96.80	70.44-126.55	0.500U
Styrene			19.1	ug/L	20.0	95.40	68.01-124.71	0.500U
Tetrachloroethene			31.3	ug/L	20.0	156.60	49.77-180.05	0.500U
Toluene			21.1	ug/L	20.0	105.45	77.67-128.73	0.500U
trans-1,2-dichloroethene			20.8	ug/L	20.0	104.05	71.14-135.42	0.500U
trans-1,3,-Dichloropropene			19.5	ug/L	20.0	97.45	68.77-131.64	0.500U
Trichloroethene			21.5	ug/L	20.0	107.55	77.68-135.38	0.500U
Trichlorofluoromethane			20.0	ug/L	20.0	100.00	48.94-159.62	0.500U
Vinyl chloride			19.8	ug/L	20.0	99.20	56.51-147.62	0.500U
Xylenes			60.9	ug/L	60.0	101.47	74.03-127.32	1.00U
1,1,1,2-Tetrachloroethane			20.4	ug/L	20.0	101.80	74.08-128.41	0.500U



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Quality Control Batch: 10240192 Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,1,1-Trichloroethane	21.8	ug/L	20.0	109.00	74.12-134.44	0.500U	3.73	38.47
1,1,2,2-Tetrachloroethane	17.1	ug/L	20.0	85.35	70.96-136.31	0.100U	3.72	24.85
1,1,2-Trichloroethane	18.6	ug/L	20.0	92.75	78.08-124.41	0.500U	2.42	18.98
1,1-Dichloroethane	20.9	ug/L	20.0	104.70	72.78-134.55	0.500U	0.48	15.45
1,1-Dichloroethene	21.1	ug/L	20.0	105.35	58.40-151.32	0.500U	0.86	14.47
1,2-dichloroethane	20.7	ug/L	20.0	103.70	71.53-134.48	0.500U	0.27	18.89
1,2-dichloropropane	20.4	ug/L	20.0	102.05	74.50-129.66	0.200U	10.37	22.97
2-Butanone (MEK)	19.4	ug/L	20.0	96.75	64.53-153.74	0.500U	0.32	18.68
2-Hexanone	19.9	ug/L	20.0	99.35	62.58-147.29	0.500U	2.11	17.54
Surr:Bromofluorobenzene	10.2	ug/L	10.0	101.80	53.82-151.16	0.500U	2.17	24.25
Surr:Toluene-d8	9.78	ug/L	10.0	97.80	88.05-109.81	0.500U	1.49	17.36
Surr:1,2-Dichloroethane-d4	9.88	ug/L	10.0	98.80	75.07-126.19	0.400U	6.44	24.58
Matrix Spike Duplicate							0.39	19.01
Acetone	19.5	ug/L	20.0	97.30	46.01-156.32	5.00U	1.51	17.79
Acrylonitrile	17.4	ug/L	20.0	87.05	43.40-147.39	0.300U	0.15	17.16
Benzene	21.3	ug/L	20.0	106.50	74.48-134.24	0.500U		
Bromochloromethane	20.7	ug/L	20.0	103.35	73.98-126.75	0.100U		
Bromodichloromethane	21.0	ug/L	20.0	104.75	74.51-131.60	0.100U		
Bromoform	18.7	ug/L	20.0	93.70	65.77-126.66	0.500U		
Bromomethane	21.5	ug/L	20.0	107.50	45.79-154.07	0.500U		
Carbon Tetrachloride	21.9	ug/L	20.0	109.70	69.71-134.11	0.500U		
Chlorobenzene	20.6	ug/L	20.0	103.05	78.18-124.63	0.500U		
Chloroethane	19.6	ug/L	20.0	97.90	57.96-148.61	0.500U		
Chloroform	21.6	ug/L	20.0	108.15	67.52-139.02	0.500U		
Chloromethane	19.2	ug/L	20.0	96.15	51.30-156.78	0.500U		
cis-1,2-dichloroethene	20.7	ug/L	20.0	103.60	76.64-126.84	0.200U		
cis-1,3-Dichloropropene	20.0	ug/L	20.0	99.90	67.26-137.96	0.500U		
Dibromochloromethane	19.6	ug/L	20.0	97.95	73.00-123.23	0.500U		



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PO #: 40612
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Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Quality Control Batch: 10240192

Analyst: CLS

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Dibromomethane	19.8	ug/L	20.0	98.80	73.11-128.50	0.500U	0.46	14.33
Ethylbenzene	21.4	ug/L	20.0	106.85	73.91-128.64	0.500U	1.75	17.78
Methyl Iodide	31.9	ug/L	20.0	159.55	54.23-165.25	1.00U	16.67	24.15
Methyl isobutyl ketone	18.1	ug/L	20.0	90.50	57.64-133.07	1.00U	1.04	23.20
Methylene chloride	20.5	ug/L	20.0	102.40	50.29-142.90	1.00U	1.97	22.29
o-dichlorobenzene	19.5	ug/L	20.0	97.30	71.04-127.37	0.500U	1.87	17.00
Para-dichlorobenzene	19.6	ug/L	20.0	97.95	70.44-126.55	0.500U	1.18	14.84
Styrene	19.5	ug/L	20.0	97.45	68.01-124.71	0.500U	2.13	17.03
Tetrachloroethene	31.8	ug/L	20.0	159.15	49.77-180.05	0.500U	1.62	27.05
Toluene	21.4	ug/L	20.0	106.90	77.67-128.73	0.500U	1.37	18.11
trans-1,2-dichloroethene	21.2	ug/L	20.0	105.95	71.14-135.42	0.500U	1.81	19.23
trans-1,3-Dichloropropene	19.9	ug/L	20.0	99.25	68.77-131.64	0.500U	1.83	17.05
Trichloroethene	22.2	ug/L	20.0	111.10	77.68-135.38	0.500U	3.25	16.98
Trichlorofluoromethane	20.2	ug/L	20.0	101.10	48.94-159.62	0.500U	1.09	24.90
Vinyl chloride	21.3	ug/L	20.0	106.55	56.51-147.62	0.500U	7.14	21.53
Xylenes	62.0	ug/L	60.0	103.38	74.03-127.32	1.00U	1.87	18.64
1,1,1,2-Tetrachloroethane	20.8	ug/L	20.0	103.85	74.08-128.41	0.500U	1.99	18.35
1,1,1-Trichloroethane	22.1	ug/L	20.0	110.35	74.12-134.44	0.500U	1.23	19.03
1,1,2,2-Tetrachloroethane	16.8	ug/L	20.0	84.05	70.96-136.31	0.100U	1.53	18.50
1,1,2-Trichloroethane	18.5	ug/L	20.0	92.50	78.08-124.41	0.500U	0.27	15.94
1,1-Dichloroethane	21.4	ug/L	20.0	106.75	72.78-134.55	0.500U	1.94	16.44
1,1-Dichloroethene	21.8	ug/L	20.0	109.00	58.40-151.32	0.500U	3.41	23.15
1,2-dichloroethane	20.7	ug/L	20.0	103.60	71.53-134.48	0.500U	0.10	15.32
1,2-dichloropropane	20.7	ug/L	20.0	103.45	74.50-129.66	0.200U	1.36	16.56
2-Butanone (MEK)	18.4	ug/L	20.0	92.05	64.53-153.74	0.500U	4.98	32.53
2-Hexanone	19.1	ug/L	20.0	95.40	62.58-147.29	0.500U	4.06	25.26
Surr:Bromofluorobenzene	10.1	ug/L	10.0	101.10	53.82-151.16		0.69	13.51
Surr:Toluene-d8	9.74	ug/L	10.0	97.40	88.05-109.81		0.41	7.44
Surr:1,2-Dichloroethane-d4	9.85	ug/L	10.0	98.50	75.07-126.19		0.30	8.75



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Quality Control Batch: 10240217 Analyst: DLJ

Blank	Result	Units
1,2,3-Trichloropropane	0.0200U	ug/L
1,2-Dibromoethane (EDB)	0.0100U	ug/L
1,2-dibromo-3-chloropropane	0.0200U	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
1,2,3-Trichloropropane	0.296	ug/L	0.250	118.54	80.00-120.00
1,2-Dibromoethane (EDB)	0.271	ug/L	0.250	108.50	71.37-128.24
1,2-dibromo-3-chloropropane	0.248	ug/L	0.250	99.13	56.44-144.91

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
1,2,3-Trichloropropane	0.288	ug/L	0.250	115.07	80.00-120.00	0.0200U
1,2-Dibromoethane (EDB)	0.236	ug/L	0.250	94.53	68.22-125.80	0.0100U
1,2-dibromo-3-chloropropane	0.247	ug/L	0.250	98.80	60.03-124.62	0.0200U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
1,2,3-Trichloropropane	0.289	ug/L	0.250	115.44	80.00-120.00	0.0200U	0.33
1,2-Dibromoethane (EDB)	0.239	ug/L	0.250	95.75	68.22-125.80	0.0100U	1.28
1,2-dibromo-3-chloropropane	0.235	ug/L	0.250	94.04	60.03-124.62	0.0200U	4.94

Quality Control Batch: 10240309 Analyst: EVB

Blank	Result	Units
Mercury	0.0000200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.00101	mg/L	0.00100	100.80	90.27-115.31

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00296	mg/L	0.00300	98.73	81.00-122.08	0.0000200U



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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00312	mg/L	0.00300	103.87	81.00-122.08	0.0000200U	5.07	8.88

Quality Control Batch: 10240351 Analyst: PCW

Blank	Result	Units
Ammonia (as N)	0.0100U	mg/L

Laboratory Control Sample

Ammonia (as N)	Result	Units	Spike	%REC	%REC Lim
	0.524	mg/L	0.500	104.80	80.72-118.76

Matrix Spike

Ammonia (as N)	Result	Units	Spike	%REC	%REC Lim	Sample
	0.669	mg/L	0.780	99.74	54.58-133.65	-0.109

Matrix Spike Duplicate

Ammonia (as N)	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
	0.679	mg/L	0.780	101.03	54.58-133.65	-0.109	1.48	13.84

Quality Control Batch: 10240624 Analyst: PLB

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample

TDS	Result	Units	Spike	%REC	%REC Lim
	1450	mg/L	1500	96.93	91.15-105.70

Quality Control Batch: 10240633 Analyst: EVB

Blank	Result	Units
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.00100U	mg/L



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Quality Control Batch: 10240633

Analyst: EVB

Blank	Result	Units
Chromium	0.00100U	mg/L
Cobalt	0.00100U	mg/L
Copper	0.00100U	mg/L
Lead	0.00100U	mg/L
Nickel	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L
Thallium	0.00100U	mg/L
Vanadium	0.00100U	mg/L
Zinc	0.0100U	mg/L

Laboratory Control Sample

Antimony	Result	Units	Spike	%REC	%REC Lim
Arsenic	0.210	mg/L	0.200	105.09	76.70-120.39
Barium	0.207	mg/L	0.200	103.28	81.09-119.32
Beryllium	0.192	mg/L	0.200	95.78	84.59-125.11
Cadmium	0.214	mg/L	0.200	107.05	85.69-132.22
Chromium	0.207	mg/L	0.200	103.61	84.66-121.81
Cobalt	0.210	mg/L	0.200	105.01	87.00-122.96
Copper	0.206	mg/L	0.200	102.81	78.66-126.98
Lead	0.214	mg/L	0.200	107.06	84.08-122.69
Nickel	0.203	mg/L	0.200	101.68	86.91-124.18
Selenium	0.211	mg/L	0.200	105.66	77.31-126.31
Silver	0.201	mg/L	0.200	100.30	75.98-121.42
Thallium	0.202	mg/L	0.200	101.01	79.76-119.92
Vanadium	0.206	mg/L	0.200	102.76	80.95-125.84
Zinc	0.205	mg/L	0.200	102.28	78.51-125.51
	0.220	mg/L	0.200	110.22	79.82-122.80

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample



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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Quality Control Batch: 10240633

Analyst: EVB

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
0.0984	mg/L	0.100	98.42	73.48-142.27	0.00200U	1.04	23.91
0.122	mg/L	0.100	122.37	73.05-140.45	0.00100U	0.56	26.42
0.102	mg/L	0.100	98.47	70.68-156.87	0.00338	7.11	20.91
0.0774	mg/L	0.100	77.38	89.27-154.67	0.000500U	6.73	22.45
0.108	mg/L	0.100	107.84	76.87-137.80	0.00100U	6.59	24.42
0.108	mg/L	0.100	107.50	67.91-144.29	0.00100U	9.85	26.93
0.104	mg/L	0.100	103.56	68.92-150.01	0.00100U	8.00	20.94
0.102	mg/L	0.100	102.26	57.64-148.77	0.00100U	9.14	26.04
0.0906	mg/L	0.100	90.55	69.09-150.83	0.00100U	11.26	26.35
0.104	mg/L	0.100	103.57	58.01-145.27	0.00100U	7.42	25.87
0.103	mg/L	0.100	102.86	63.72-144.34	0.00200U	0.31	23.19
0.0890	mg/L	0.100	88.98	48.94-146.79	0.000500U	4.81	25.78
0.0937	mg/L	0.100	93.74	68.93-151.79	0.00100U		
0.109	mg/L	0.100	108.88	72.08-149.74	0.00100U		
2.31	mg/L	0.100	237.80	51.79-149.89	2.07		

Matrix Spike Duplicate

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
0.0974	mg/L	0.100	97.40	73.48-142.27	0.00200U	1.04	23.91
0.122	mg/L	0.100	121.69	73.05-140.45	0.00100U	0.56	26.42
0.0949	mg/L	0.100	91.48	70.68-156.87	0.00338	7.11	20.91
0.0723	mg/L	0.100	72.34	89.27-154.67	0.000500U	6.73	22.45
0.101	mg/L	0.100	100.96	76.87-137.80	0.00100U	6.59	24.42
0.0974	mg/L	0.100	97.41	67.91-144.29	0.00100U	9.85	26.93
0.0956	mg/L	0.100	95.59	68.92-150.01	0.00100U	8.00	20.94
0.0933	mg/L	0.100	93.32	57.64-148.77	0.00100U	9.14	26.04
0.0809	mg/L	0.100	80.90	69.09-150.83	0.00100U	11.26	26.35
0.0962	mg/L	0.100	96.16	58.01-145.27	0.00100U	7.42	25.87
0.103	mg/L	0.100	102.54	63.72-144.34	0.00200U	0.31	23.19
0.0848	mg/L	0.100	84.80	48.94-146.79	0.000500U	4.81	25.78



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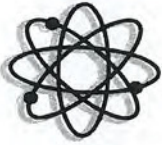
PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Quality Control Batch: 10240633

Analyst: EVB

Matrix Spike Duplicate

	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Thallium	0.0883	mg/L	0.100	88.28	68.93-151.79	0.00100U	6.00	22.45
Vanadium	0.0982	mg/L	0.100	98.17	72.08-149.74	0.00100U	10.35	21.04
Zinc	2.25	mg/L	0.100	177.66	51.79-149.89	2.07	2.64	25.51



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Date Sampled: Dec 26, 2013
Jan 7, 2014; Invoice: 224462

Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments

Chain of Custody
Field Data

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Check Box That Applies To Your Location

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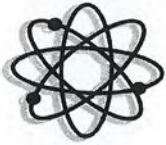
Client: ATKINS - TAMPA Project Name: HARDEE COUNTY LANDFILL P.O. # _____
Address: _____ Client Contact: BRAD BAYNE FAX: _____
FCL Project Manager: BRAD BAYNE E-MAIL: BRADLEY.BAYNE@ATKINS

Phone: _____ Requested Due Date: _____ Vehicle Surcharge: \$ _____
Sampled By (PRINT): Raymundo Castro Date Sampled: 12/27/13 Pick-Up Fee: \$ _____
Sampler Signature: _____ Rush Charges May Apply Sampling Fee: \$ _____

Preservatives: _____ ANALYSES REQUEST: _____ COMMENTS: 60C PH02
Total # Containers: _____

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	LAB USE ONLY LAB NO.	PRESERVATIVES				ANALYSES REQUEST	COMMENTS	
						GW - ground water	DW - drinking water	SO - soil/solid	SL - sludge			WW - wastewater
1	MW-1	12/26/13	15:06	GW	2244626W1							
2	MW-2	"	12:40									
3	MW-4	"	13:54									
4	MW-5	"	14:26									
5	MW-8	"	16:01									
6	MW-10R	12/27/13	9:18									
7	MW-11	"	8:31									
8	MW-12R	12/27/13	16:46									
9												
10												

Relinquished By / Affiliation: _____ Date: _____ Accepted By / Affiliation: Raymundo Castro Date: 12/27/13
Time: _____ Time: _____



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Report Summary

Date Received: Dec 27, 2013

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
224461GW1	MANHOLE 9/21061	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	VLB	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8081	DLJ	Main Lab	
		EPA8082	DLJ	Main Lab	
		EPA8141	DLJ	Main Lab	
		EPA8151	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		EPA8270	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2320 B	MAC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	MAC	Main Lab	
		SM4500-S F	TRB	Main Lab	
		SM4500CN-E	PCW	Main Lab	
		X8081	BRC	Main Lab	
		X8141	BRC	Main Lab	
		X8151	GIG	Main Lab	
		X8270	BRC	Main Lab	
		XPCB	BRC	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.
President/Technical Director



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Analysis Report

Lab #:	224461GW1	Sampled:	12/27/13 09:48 AM	Desc:	MANHOLE 9/21061	QC Batch	Method	CAS #	Analyzed
Parameter	Result	Units	DF	MDL	PQL				
Chloride	140	mg/L	2.00	8.00	16.0	10197567	SM4500-CIE	16887-00-6	01/07/14
Total Alkalinity CaCO3	326	mg/L	1.00	0.100	0.200	10239893	SM2320 B	T-005	12/27/13
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10239943	EPA353.2	14797-55-8	12/27/13 04:17 PM
Field pH (units)	6.14	pH	1.00	0.0100	0.0200	10239962	FT1100	C006	12/27/13
Field Conductivity	1170	umhos/cm	1.00	0.100	0.100	10239962	FT1200		12/27/13
Field Temp. (C)	25.7	oC	1.00	0.100	0.100	10239962	FT1400		12/27/13
Field DO	0.150	mg/L	1.00	0.100	0.100	10239962	FT1500		12/27/13
Field Turbidity	21.3	NTU	1.00	0.100	0.100	10239962	FT1600		12/27/13
Iron	34.0	mg/L	1.00	0.0100	0.0200	10239991	EPA6010	7439-89-6	12/30/13
Sodium	82.8	mg/L	1.00	0.500	1.00	10239991	EPA6010	7440-23-5	12/30/13
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	630-20-6	01/02/14
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	71-55-6	01/02/14
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10240195	EPA8260	79-34-5	01/02/14
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	79-00-5	01/02/14
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-34-3	01/02/14
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-35-4	01/02/14
1,2-Dichloropropene	0.200 U	ug/L	1.00	0.200	0.400	10240195	EPA8260	563-58-6	01/02/14
1,2,4-trichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	120-82-1	01/02/14
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10240195	EPA8260	107-06-2	01/02/14
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10240195	EPA8260	78-87-5	01/02/14
1,3-Dichloropropane	0.300 U	ug/L	1.00	0.300	0.600	10240195	EPA8260	142-28-9	01/02/14
2,2-Dichloropropane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	594-20-7	01/02/14
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	78-93-3	01/02/14
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	591-78-6	01/02/14
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10240195	EPA8260	67-64-1	01/02/14
Acetonitrile	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	75-05-8	01/02/14
Acrolein	3.50 U	ug/L	1.00	3.50	7.00	10240195	EPA8260	107-02-8	01/02/14



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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Lab #: 224461GW1 Sampled: 12/27/13 09:48 AM Desc: MANHOLE 9/21061

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10240195	EPA8260	107-13-1	01/02/14
Allyl Chloride	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	107-05-1	01/02/14
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	71-43-2	01/02/14
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10240195	EPA8260	074-97-5	01/02/14
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10240195	EPA8260	75-27-4	01/02/14
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-25-2	01/02/14
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	74-83-9	01/02/14
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	75-15-0	01/02/14
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	56-23-5	01/02/14
Chlorobenzene	1.90	ug/L	1.00	0.500	1.00	10240195	EPA8260	108-90-7	01/02/14
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-00-3	01/02/14
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	67-66-3	01/02/14
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	74-87-3	01/02/14
Chloroprene	5.00 U	ug/L	1.00	5.00	10.0	10240195	EPA8260	126-99-8	01/02/14
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10240195	EPA8260	124-48-1	01/02/14
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	074-95-3	01/02/14
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-71-8	01/02/14
Ethyl methacrylate	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	97-63-2	01/02/14
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	100-41-4	01/02/14
Iso-butyl Alcohol	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	78-83-1	01/02/14
Methacrylonitrile	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	126-98-7	01/02/14
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	074-88-4	01/02/14
Methyl Methacrylate	2.00 U	ug/L	1.00	2.00	4.00	10240195	EPA8260	80-62-6	01/02/14
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	108-10-1	01/02/14
Methylene chloride	1.34 I	ug/L	1.00	1.00	2.00	10240195	EPA8260	75-09-2	01/02/14
Para-dichlorobenzene	1.02	ug/L	1.00	1.00	1.00	10240195	EPA8260	106-46-7	01/02/14
Propionitrile	1.00 U	ug/L	1.00	0.500	2.00	10240195	EPA8260	107-12-0	01/02/14
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	100-42-5	01/02/14
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	127-18-4	01/02/14



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Atkins-Tampa
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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Lab #: 224461GW1 Sampled: 12/27/13 09:48 AM Desc: MANHOLE 9/21061

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	108-88-3	01/02/14
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	79-01-6	01/02/14
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-69-4	01/02/14
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10.0	10240195	EPA8260	108-05-4	01/02/14
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	75-01-4	01/02/14
Xylenes	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	1330-20-7	01/02/14
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10240195	EPA8260	156-59-2	01/02/14
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	10061-01-5	01/02/14
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	541-73-1	01/02/14
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	95-50-1	01/02/14
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	156-60-5	01/02/14
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10240195	EPA8260	10061-02-6	01/02/14
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10240195	EPA8260	110-57-6	01/02/14
Surr:1,2-Dichloroethane-d4 (77-129%)	105.10%		1.00	0.0100	0.0100	10240195	EPA8260	460-00-4	01/02/14
Surr:Bromofluorobenzene (70-122%)	113.40%		1.00	1.00	1.00	10240195	EPA8260	096-18-4	01/02/14
Surr:Toluene-d8 (80-120%)	85.30%		1.00	0.0100	0.0100	10240195	EPA8260	106-93-4	01/02/14
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	96-12-8	01/02/14
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240217	EPA8011	10-33-3	01/03/14
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10240217	EPA8011	7439-97-6	01/06/14
TDS	614	mg/L	1.00	2.50	5.00	10240276	SM2540 C	7664-41-7	01/06/14
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10240309	EPA7470		01/06/14
Ammonia (as N)	27.9	mg/L	60.0	0.600	1.20	10240351	EPA350.1		01/06/14
Phos_Pest_Extraction	1000	mL	1.00			10240358	X8141		01/02/14
PCB_Extraction	1000	mL	1.00			10240359	XPCB		01/02/14
Chlor_Pest_Extraction	1000	mL	1.00			10240360	X8081		01/02/14
Acid Base Extraction	1000	mL	1.00			10240392	X8270		01/02/14
Chlor_Herb_Extraction	40.0	mL	1.00			10240399	X8151		01/03/14
Surr:2-Fluorophenol (20-120%)	54.94%		1.00	0.0100	0.0100	10240498	EPA8270		01/07/14
1,2,4,5-Tetrachlorobenzene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	95-94-3	01/07/14



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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,4-Naphthoquinone	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	130-15-4	01/07/14
1-Naphthalamine	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	134-32-7	01/07/14
2,3,4,6-Tetrachlorophenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	58-90-2	01/07/14
2,4,5-Trichlorophenol	1.00 U	ug/L	1.00	1.00	4.00	10240499	EPA8270	95-95-4	01/07/14
2,4,6-Trichlorophenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	88-06-2	01/07/14
2,4-Dichlorophenol	1.00 U	ug/L	1.00	1.00	4.00	10240499	EPA8270	120-83-2	01/07/14
2,4-Dimethylphenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	105-67-9	01/07/14
2,4-Dinitrophenol	5.00 U	ug/L	1.00	5.00	10.0	10240499	EPA8270	51-28-5	01/07/14
2,4-Dinitrotoluene	0.200 U	ug/L	1.00	0.200	0.200	10240499	EPA8270	121-14-2	01/07/14
2,6-Dichlorophenol	1.00 U	ug/L	1.00	1.00	4.00	10240499	EPA8270	87-65-0	01/07/14
2,6-Dinitrotoluene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	606-20-2	01/07/14
2-Acetylaminofluorene	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	53-96-3	01/07/14
2-Chloronaphthalene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	91-58-7	01/07/14
2-Naphthylamine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	91-59-8	01/07/14
2-Nitrophenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	88-75-5	01/07/14
2-chlorophenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	95-57-8	01/07/14
2-methyl-4,6-dinitrophenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	534-52-1	01/07/14
2-methyl-Naphthalene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	91-57-6	01/07/14
3,3'-Dichlorobenzidine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	91-94-1	01/07/14
3,3'-Dimethylbenzidine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	119-93-7	01/07/14
3-Methylcholanthrene	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	56-49-5	01/07/14
4-Aminobiphenyl	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	92-67-1	01/07/14
4-Bromophenylphenyl ether	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	101-55-3	01/07/14
4-Chlorophenylphenyl ether	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	7005-72-3	01/07/14
4-Nitrophenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	100-02-7	01/07/14
5-Nitro-o-toluidine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	99-55-8	01/07/14
7,12-Dimethylbenz(a)anthracene	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	57-97-6	01/07/14
Acenaphthene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	83-32-9	01/07/14
Acenaphthylene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	208-96-8	01/07/14



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Acetophenone	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	98-86-2	01/07/14
Anthracene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	120-12-7	01/07/14
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10240499	EPA8270	56-55-3	01/07/14
Benzo(a)pyrene	1.00 U	ug/L	1.00	1.00	4.00	10240499	EPA8270	50-32-8	01/07/14
Benzo(b)fluoranthene	0.100 U	ug/L	1.00	0.100	0.100	10240499	EPA8270	205-99-2	01/07/14
Benzo(g,h,i)perylene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	191-24-2	01/07/14
Benzo(k)fluoranthene	1.00 U	ug/L	1.00	1.00	4.00	10240499	EPA8270	207-08-9	01/07/14
Benzyl alcohol	5.00 U	ug/L	1.00	5.00	10.0	10240499	EPA8270	100-51-6	01/07/14
Bis(2-chloroethoxy)methane	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	111-91-1	01/07/14
Bis(2-chloroethyl)ether	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	111-44-4	01/07/14
Bis(2-ethylhexyl)phthalate	3.00 U	ug/L	1.00	3.00	6.00	10240499	EPA8270	117-81-7	01/07/14
Butyl benzyl phthalate	3.00 U	ug/L	1.00	3.00	6.00	10240499	EPA8270	85-68-7	01/07/14
Chlorobenzilate	0.800 U	ug/L	1.00	0.800	1.60	10240499	EPA8270	510-15-6	01/07/14
Chrysene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	218-01-9	01/07/14
Di-n-butylphthalate	3.00 U	ug/L	1.00	3.00	6.00	10240499	EPA8270	84-74-2	01/07/14
Di-n-octylphthalate	3.00 U	ug/L	1.00	3.00	6.00	10240499	EPA8270	117-84-0	01/07/14
Diallylate	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	2303-16-4	01/07/14
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.200	10240499	EPA8270	53-70-3	01/07/14
Dibenzofuran	5.00 U	ug/L	1.00	5.00	10.0	10240499	EPA8270	132-64-9	01/07/14
Diethylphthalate	3.00 U	ug/L	1.00	3.00	6.00	10240499	EPA8270	84-66-2	01/07/14
Dimethoate	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	60-51-5	01/07/14
Dimethylphthalate	3.00 U	ug/L	1.00	3.00	6.00	10240499	EPA8270	131-11-3	01/07/14
Diphenylamine	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	122-39-4	01/07/14
Ethyl methanesulfonate	20.0 U	ug/L	1.00	20.0	40.0	10240499	EPA8270	62-50-0	01/07/14
Famphur	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	52-85-7	01/07/14
Fluoranthene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	206-44-0	01/07/14
Fluorene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	86-73-7	01/07/14
Hexachlorobenzene	1.00 U	ug/L	1.00	1.00	4.00	10240499	EPA8270	118-74-1	01/07/14
Hexachlorobutadiene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	87-68-3	01/07/14



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Hexachlorocyclopentadiene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	77-47-4	01/07/14
Hexachloroethane	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	67-72-1	01/07/14
Hexachloropropene	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	1888-71-7	01/07/14
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.200	10240499	EPA8270	193-39-5	01/07/14
Isodrin	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	465-73-6	01/07/14
Isophorone	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	78-59-1	01/07/14
Isosafrole	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	120-58-1	01/07/14
Kepone	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	143-50-0	01/07/14
Methapyrilene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	91-80-5	01/07/14
Methyl methanesulfonate	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	66-27-3	01/07/14
N-Nitroso di-n-butylamine	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	924-16-3	01/07/14
N-Nitrosodi-n-propylamine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	621-64-7	01/07/14
N-Nitrosodiethylamine	3.00 U	ug/L	1.00	3.00	12.0	10240499	EPA8270	55-18-5	01/07/14
N-Nitrosodimethylamine	3.00 U	ug/L	1.00	3.00	12.0	10240499	EPA8270	62-75-9	01/07/14
N-Nitrosodiphenylamine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	86-30-6	01/07/14
N-Nitrosomethylethylamine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	10595-95-6	01/07/14
N-Nitrosopiperidine	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	100-75-4	01/07/14
N-Nitrosopyrrolidine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	930-55-2	01/07/14
Naphthalene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	91-20-3	01/07/14
Nitrobenzene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	98-95-3	01/07/14
O,O,O-Triethylphosphorothioate	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	126-68-1	01/07/14
O,O-diethyl-0,2-pyrazinylphosphorothioate	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	297-97-2	01/07/14
Pentachlorobenzene	0.300 U	ug/L	1.00	0.300	0.600	10240499	EPA8270	608-93-5	01/07/14
Pentachloronitrobenzene	0.300 U	ug/L	1.00	0.300	0.600	10240499	EPA8270	82-68-8	01/07/14
Pentachlorophenol	0.400 U	ug/L	1.00	0.400	0.800	10240499	EPA8270	87-86-5	01/07/14
Phenacetin	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	62-44-2	01/07/14
Phenanthrene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	85-01-8	01/07/14
Phenol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	108-95-2	01/07/14
Pronamide	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	23950-58-5	01/07/14



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Pyrene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	129-00-0	01/07/14
Saffrole	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	94-59-7	01/07/14
Trinitrobenzene	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	99-35-4	01/07/14
m-Cresol	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	108-39-4	01/07/14
m-Dinitrobenzene	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	99-65-0	01/07/14
m-nitroaniline	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	99-09-2	01/07/14
o-Cresol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	95-48-7	01/07/14
o-Toluidine	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	95-53-4	01/07/14
o-nitroaniline	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	88-74-4	01/07/14
p-(Dimethylamino)azobenzene	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	60-11-7	01/07/14
p-Chloro-m-Cresol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	59-50-7	01/07/14
p-Chloroaniline	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	106-47-8	01/07/14
p-Cresol	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	106-44-5	01/07/14
p-Phenylenediamine	10.0 U	ug/L	1.00	10.0	20.0	10240499	EPA8270	106-50-3	01/07/14
p-nitroaniline	2.00 U	ug/L	1.00	2.00	4.00	10240499	EPA8270	100-01-6	01/07/14
Surr:2,4,6-Tribromophenol (25-125%)	98.04%		1.00	1.00	1.00	10240499	EPA8270	118-79-6	01/07/14
Surr:2-Fluorobiphenyl (25-125%)	82.84%		1.00	1.00	1.00	10240499	EPA8270	321-60-8	01/07/14
Surr:Nitrobenzene-d5 (50-125%)	71.82%		1.00	0.0100	0.0100	10240499	EPA8270		01/07/14
Surr:Phenol-d5 (10-110%)	64.14%		1.00	1.00	1.00	10240499	EPA8270		01/07/14
Surr:Terphenyl-d14 (35-125%)	43.62%		1.00	1.00	1.00	10240499	EPA8270		01/07/14
2,4,5-T	0.250 U	ug/L	1.00	0.250	0.500	10240501	EPA8151	93-76-5	01/07/14
2,4,5-TP (Silvex)	0.250 U	ug/L	1.00	0.250	0.500	10240501	EPA8151	93-72-1	01/07/14
2,4-D	0.250 U	ug/L	1.00	0.250	0.500	10240501	EPA8151	94-75-7	01/07/14
Dinoseb	0.250 U	ug/L	1.00	0.250	0.500	10240501	EPA8151	88-85-7	01/07/14
Surr:DCAA (38-150%)	116.61%		1.00	0.0100	0.0100	10240501	EPA8151		01/07/14
4,4'-DDD	0.0200 U	ug/L	1.00	0.0200	0.0400	10240502	EPA8081	72-54-8	01/07/14
4,4'-DDE	0.0200 U	ug/L	1.00	0.0200	0.0400	10240502	EPA8081	72-55-9	01/07/14
4,4'-DDT	0.0200 U	ug/L	1.00	0.0200	0.0400	10240502	EPA8081	50-29-3	01/07/14
Aldrin	0.0200 U	ug/L	1.00	0.0200	0.0200	10240502	EPA8081	309-00-2	01/07/14



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Atkins-Tampa
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 Tampa, FL 33607

PO #: 40612
 Client Project #: HARDEE COUNTY REGIONAL LAN
 Date Sampled: Dec 27, 2013
 Jan 9, 2014; Invoice: 224461

Lab #: 224461GW1 Sampled: 12/27/13 09:48 AM Desc: MANHOLE 9/21061

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chlordane	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	57-74-9	01/07/14
Dieldrin	0.0200 U	ug/L	1.00	0.0200	0.0400	10240502	EPA8081	60-57-1	01/07/14
Endosulfan_I	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	959-98-8	01/07/14
Endosulfan_II	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	33213-65-9	01/07/14
Endosulfan_sulfate	0.0200 U	ug/L	1.00	0.0200	0.0400	10240502	EPA8081	1031-07-8	01/07/14
Endrin	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	72-20-8	01/07/14
Endrin_Aldehyde	0.0200 U	ug/L	1.00	0.0200	0.0400	10240502	EPA8081	7421-93-4	01/07/14
Heptachlor	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	76-44-8	01/07/14
Heptachlor epoxide	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	1024-57-3	01/07/14
Lindane (g-BHC)	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	58-89-9	01/07/14
Methoxychlor	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	72-43-5	01/07/14
Toxaphene	0.500 U	ug/L	1.00	0.500	1.00	10240502	EPA8081	8001-35-2	01/07/14
a-BHC	0.0200 U	ug/L	1.00	0.0200	0.0200	10240502	EPA8081	319-84-6	01/07/14
b-BHC	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	319-85-7	01/07/14
d-BHC	0.0100 U	ug/L	1.00	0.0100	0.0200	10240502	EPA8081	319-86-8	01/07/14
Surr:Decachlorobiphenyl (26-128%)	7.71%		1.00	0.000100	0.000200	10240502	EPA8081		01/07/14
Arochlor 1016	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	12674-11-2	01/07/14
Arochlor 1221	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	11104-28-2	01/07/14
Arochlor 1232	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	11141-16-5	01/07/14
Arochlor 1242	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	53469-21-9	01/07/14
Arochlor 1248	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	12672-29-6	01/07/14
Arochlor 1254	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	11097-69-1	01/07/14
Arochlor 1260	0.100 U	ug/L	1.00	0.100	0.200	10240582	EPA8082	11096-82-5	01/07/14
Cyanide	0.00500 U	mg/L	1.00	0.00500	0.0100	10240585	SM4500CN-E	57-12-5	01/08/14
Disulfoton	0.300 U	ug/L	1.00	0.300	2.00	10240594	EPA8141	298-04-4	01/08/14
Ethyl Parathion	0.500 U	ug/L	1.00	0.500	1.00	10240594	EPA8141	56382	01/08/14
Methyl Parathion	0.500 U	ug/L	1.00	0.500	1.00	10240594	EPA8141	298-00-0	01/08/14
Phorate	1.00 U	ug/L	1.00	1.00	2.00	10240594	EPA8141	298-02-2	01/08/14
Surr:CI-NBTF (69-129%)	1.00 U		1.00	1.00	2.00	10240594	EPA8141		01/08/14



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PO #: 40612
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Jan 9, 2014; Invoice: 224461

Lab #: 224461GW1 Sampled: 12/27/13 09:48 AM Desc: MANHOLE 9/21061

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10240633	EPA6020	7440-36-0	12/30/13
Arsenic	0.00437	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-38-2	12/30/13
Barium	0.0282	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7440-39-3	12/30/13
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-41-7	12/30/13
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-43-9	12/30/13
Chromium	0.00321	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-47-3	12/30/13
Cobalt	0.00257	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-48-4	12/30/13
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-50-8	12/30/13
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7439-92-1	12/30/13
Nickel	0.0196	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-02-0	12/30/13
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10240633	EPA6020	7782-49-2	12/30/13
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10240633	EPA6020	7440-22-4	12/30/13
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-28-0	12/30/13
Tin	0.00500 U	mg/L	1.00	0.00500	0.0100	10240633	EPA6020	7440-31-5	12/30/13
Vanadium	0.0127	mg/L	1.00	0.00100	0.00200	10240633	EPA6020	7440-62-2	12/30/13
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10240633	EPA6020	7440-66-6	12/30/13
Total Sulfide	2.16	mg/L	1.00	0.100	0.200	10240640	SM4500-S F	18496-25-8	01/03/14



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Quality Report

Quality Control Batch: 10197567 Analyst: MAC

Blank Chloride Result 4.00U Units mg/L

Laboratory Control Sample Chloride Result 48.8 Units mg/L

Matrix Spike Chloride Result 50.0 Units mg/L

Matrix Spike Duplicate Chloride Result 47.7 Units mg/L

Spike 50.0 %REC 97.58 %REC Lim 90.00-110.00

Spike 50.0 %REC 96.24 %REC Lim 80.00-120.00

Spike 50.0 %REC 91.66 %REC Lim 80.00-120.00

Sample 1.91 RPD 4.68 RPD Lim 20.00

Quality Control Batch: 10239893 Analyst: MAC

Blank Total Alkalinity CaCO3 Result 0.820 Units mg/L

Laboratory Control Sample Total Alkalinity CaCO3 Result 103 Units mg/L

Matrix Spike Total Alkalinity CaCO3 Result 124 Units mg/L

Matrix Spike Duplicate Total Alkalinity CaCO3 Result 127 Units mg/L

Spike 100 %REC 102.54 %REC Lim 80.00-120.00

Spike 100 %REC 96.32 %REC Lim 80.00-120.00

Spike 100 %REC 99.08 %REC Lim 80.00-120.00

Sample 27.5 RPD 2.20 RPD Lim 20.00

Quality Control Batch: 10239943 Analyst: VLB

Blank Nitrate(as N) Result 0.0100U Units mg/L



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Quality Control Batch: 10239943

Analyst: VLB

Laboratory Control Sample

Nitrate(as N) Result 2.10 Units mg/L Spike 2.00 %REC 105.00 %REC Lim 90.00-110.00

Matrix Spike

Nitrate(as N) Result 4.21 Units mg/L Spike 4.00 %REC 104.26 %REC Lim 80.00-120.00 Sample 0.0394

Matrix Spike Duplicate

Nitrate(as N) Result 4.14 Units mg/L Spike 4.00 %REC 102.51 %REC Lim 80.00-120.00 Sample 0.0394 RPD 1.68 RPD Lim 20.00

Quality Control Batch: 10239991

Analyst: EVB

Blank

Iron Result 0.0100U Units mg/L
Sodium Result 0.500U Units mg/L

Laboratory Control Sample

Iron Result 5.05 Units mg/L Spike 5.00 %REC 100.95 %REC Lim 81.21-113.54
Sodium Result 9.56 Units mg/L Spike 10.0 %REC 95.55 %REC Lim 78.62-112.15

Matrix Spike

Iron Result 10.4 Units mg/L Spike 10.0 %REC 101.98 %REC Lim 57.02-147.60 Sample 0.215
Sodium Result 124 Units mg/L Spike 5.00 %REC 116.34 %REC Lim 37.63-161.64 Sample 118

Matrix Spike Duplicate

Iron Result 10.3 Units mg/L Spike 10.0 %REC 100.88 %REC Lim 57.02-147.60 Sample 0.215 RPD 1.06
Sodium Result 124 Units mg/L Spike 5.00 %REC 107.82 %REC Lim 37.63-161.64 Sample 118 RPD 0.34 RPD Lim 19.53

Quality Control Batch: 10240195

Analyst: CLS

Blank

Acetone Result 5.00U Units ug/L



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Quality Control Batch: 10240195

Analyst: CLS

Blank	Result	Units
Acetonitrile	1.00U	ug/L
Acrolein	3.50U	ug/L
Acrylonitrile	0.300U	ug/L
Allyl Chloride	1.00U	ug/L
Benzene	0.500U	ug/L
Bromochloromethane	0.100U	ug/L
Bromodichloromethane	0.100U	ug/L
Bromoform	0.500U	ug/L
Bromomethane	0.500U	ug/L
Carbon Disulfide	1.00U	ug/L
Carbon Tetrachloride	0.500U	ug/L
Chlorobenzene	0.500U	ug/L
Chloroethane	0.500U	ug/L
Chloroform	0.500U	ug/L
Chloromethane	0.500U	ug/L
Chloroprene	5.00U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Dichlorodifluoromethane	0.500U	ug/L
Ethyl methacrylate	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Iso-butyl Alcohol	1.00U	ug/L
Methacrylonitrile	0.500U	ug/L
Methyl iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methyl Methacrylate	2.00U	ug/L
Methylene chloride	1.00U	ug/L



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Analyst: CLS

Blank	Result	Units
m-dichlorobenzene	0.500U	ug/L
o-dichlorobenzene	0.500U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Propionitrile	1.00U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
trans-1,2-dichloroethene	0.500U	ug/L
trans-1,3-Dichloropropene	0.500U	ug/L
trans-1,4-dichloro-2-butene	1.00U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	5.00U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	1.00U	ug/L
1,1,1,2-Tetrachloroethane	0.500U	ug/L
1,1,1-Trichloroethane	0.500U	ug/L
1,1,2,2-Tetrachloroethane	0.100U	ug/L
1,1,2-Trichloroethane	0.500U	ug/L
1,1-Dichloroethane	0.500U	ug/L
1,1-Dichloroethene	0.500U	ug/L
1,1-Dichloropropene	0.200U	ug/L
1,2,4-trichlorobenzene	0.500U	ug/L
1,2-dichloroethane	0.500U	ug/L
1,2-dichloropropane	0.200U	ug/L
1,3-Dichloropropane	0.300U	ug/L
2,2-Dichloropropane	0.500U	ug/L
2-Butanone (MEK)	0.500U	ug/L
2-Hexanone	0.500U	ug/L



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Analyst: CLS

Blank Result Units

Surr: Bromofluorobenzene 11.4 ug/L
Surr: Toluene-d8 8.83 ug/L
Surr: 1,2-Dichloroethane-d4 10.2 ug/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
13.3	ug/L	10.0	133.10	38.88-162.52
9.21	ug/L	10.0	92.10	40.32-146.67
8.69	ug/L	10.0	86.90	80.00-120.00
10.7	ug/L	10.0	106.90	69.86-134.08
10.6	ug/L	10.0	105.90	73.37-125.03
10.4	ug/L	10.0	103.60	73.69-129.06
9.11	ug/L	10.0	91.10	66.50-120.60
8.32	ug/L	10.0	83.20	52.06-149.03
10.8	ug/L	10.0	107.80	72.42-160.65
10.6	ug/L	10.0	106.00	69.24-130.87
10.3	ug/L	10.0	103.00	76.12-122.63
10.1	ug/L	10.0	100.70	54.48-148.84
10.8	ug/L	10.0	108.40	70.86-132.14
9.79	ug/L	10.0	97.90	53.66-151.98
9.64	ug/L	10.0	96.40	72.17-127.13
8.90	ug/L	10.0	89.00	72.26-128.63
9.66	ug/L	10.0	96.60	72.48-118.93
10.5	ug/L	10.0	105.00	76.53-123.91
8.79	ug/L	10.0	87.90	32.37-167.41
6.06	ug/L	10.0	60.60	80.00-120.00
10.2	ug/L	10.0	102.20	70.56-124.95
9.10	ug/L	10.0	91.00	80.00-120.00
8.93	ug/L	10.0	89.30	55.71-163.66
8.31	ug/L	10.0	83.10	50.12-132.13



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E83018 (Main Lab)
E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Quality Control Batch: 10240195 Analyst: CLS

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
Methyl Methacrylate	9.09	ug/L	10.0	90.90	80.00-120.00
Methylene chloride	12.1	ug/L	10.0	120.60	40.69-151.61
m-dichlorobenzene	9.65	ug/L	10.0	96.50	58.21-134.14
o-dichlorobenzene	9.52	ug/L	10.0	95.20	59.80-127.24
Para-dichlorobenzene	9.74	ug/L	10.0	97.40	59.80-127.16
Styrene	9.03	ug/L	10.0	90.30	64.43-121.79
Tetrachloroethene	13.6	ug/L	10.0	135.70	49.80-173.40
Toluene	10.7	ug/L	10.0	107.30	75.34-126.10
trans-1,2-dichloroethene	10.4	ug/L	10.0	104.10	69.34-133.94
trans-1,3-Dichloropropene	9.51	ug/L	10.0	95.10	69.36-124.24
Trichloroethene	10.2	ug/L	10.0	102.30	70.68-139.87
Trichlorofluoromethane	9.94	ug/L	10.0	99.40	44.99-156.60
Vinyl chloride	10.4	ug/L	10.0	103.90	56.53-148.31
Xylenes	29.6	ug/L	30.0	98.60	70.92-123.99
1,1,1,2-Tetrachloroethane	10.4	ug/L	10.0	103.50	72.36-126.72
1,1,1-Trichloroethane	10.7	ug/L	10.0	106.70	72.34-131.71
1,1,2,2-Tetrachloroethane	9.50	ug/L	10.0	95.00	73.03-130.21
1,1,2-Trichloroethane	10.0	ug/L	10.0	100.20	78.01-120.70
1,1-Dichloroethane	10.6	ug/L	10.0	105.80	68.89-133.90
1,1-Dichloroethene	9.81	ug/L	10.0	98.10	57.83-149.70
1,1-Dichloropropene	10.1	ug/L	10.0	101.20	71.70-133.07
1,2,4-trichlorobenzene	8.51	ug/L	10.0	85.10	17.21-148.33
1,2-dichloroethane	10.8	ug/L	10.0	107.50	71.63-130.49
1,2-dichloropropane	10.4	ug/L	10.0	103.80	72.07-128.11
1,3-Dichloropropane	10.4	ug/L	10.0	103.50	70.02-130.05
2,2-Dichloropropane	10.0	ug/L	10.0	100.40	65.33-147.06
2-Butanone (MEK)	8.81	ug/L	10.0	88.10	59.03-164.47
2-Hexanone	8.23	ug/L	10.0	82.30	60.06-141.22
Surr:Bromofluorobenzene	10.1	ug/L	10.0	100.90	70.00-122.32



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Quality Control Batch: 10240195 Analyst: CLS

Laboratory Control Sample

Surr: Toluene-d8
Surr: 1,2-Dichloroethane-d4

Result	Units	Spike	%REC	%REC Lim	Sample
9.77	ug/L	10.0	97.70	80.00-120.00	5.00U
10.4	ug/L	10.0	104.00	77.68-129.99	0.300U

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
20.2	ug/L	20.0	101.00	46.01-156.32	5.00U
18.1	ug/L	20.0	90.35	43.40-147.39	0.300U
19.6	ug/L	20.0	97.80	80.00-120.00	1.00U
20.8	ug/L	20.0	103.95	74.48-134.24	0.500U
20.6	ug/L	20.0	102.85	73.98-126.75	0.100U
20.8	ug/L	20.0	103.85	74.51-131.60	0.100U
18.7	ug/L	20.0	93.45	65.77-126.66	0.500U
19.4	ug/L	20.0	96.90	45.79-154.07	0.500U
21.9	ug/L	20.0	109.35	69.71-134.11	0.500U
20.2	ug/L	20.0	100.90	78.18-124.63	0.500U
19.2	ug/L	20.0	95.80	57.96-148.61	0.500U
21.3	ug/L	20.0	106.55	67.52-139.02	0.500U
18.0	ug/L	20.0	90.15	51.30-156.78	0.500U
20.6	ug/L	20.0	103.20	76.64-126.84	0.200U
19.7	ug/L	20.0	98.40	67.26-137.96	0.500U
19.6	ug/L	20.0	98.10	73.00-123.23	0.400U
19.7	ug/L	20.0	98.35	73.11-128.50	0.500U
16.4	ug/L	20.0	81.75	31.11-164.64	0.500U
14.2	ug/L	20.0	70.90	80.00-120.00	0.500U
21.0	ug/L	20.0	105.00	73.91-128.64	0.500U
18.1	ug/L	20.0	90.35	80.00-120.00	0.500U
27.0	ug/L	20.0	135.00	54.23-165.25	1.00U
18.3	ug/L	20.0	91.45	57.64-133.07	1.00U
20.8	ug/L	20.0	103.85	80.00-120.00	2.00U
20.1	ug/L	20.0	100.40	50.29-142.90	1.00U



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Quality Control Batch: 10240195 Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
m-dichlorobenzene	19.4	ug/L	20.0	97.15	69.74-129.80	0.500U
o-dichlorobenzene	19.1	ug/L	20.0	95.50	71.04-127.37	0.500U
Para-dichlorobenzene	19.4	ug/L	20.0	96.80	70.44-126.55	0.500U
Styrene	19.1	ug/L	20.0	95.40	68.01-124.71	0.500U
Tetrachloroethene	31.3	ug/L	20.0	156.60	49.77-180.05	0.500U
Toluene	21.1	ug/L	20.0	105.45	77.67-128.73	0.500U
trans-1,2-dichloroethene	20.8	ug/L	20.0	104.05	71.14-135.42	0.500U
trans-1,3-Dichloropropene	19.5	ug/L	20.0	97.45	68.77-131.64	0.500U
Trichloroethene	21.5	ug/L	20.0	107.55	77.68-135.38	0.500U
Trichlorofluoromethane	20.0	ug/L	20.0	100.00	48.94-159.62	0.500U
Vinyl chloride	19.8	ug/L	20.0	99.20	56.51-147.62	0.500U
Xylenes	60.9	ug/L	60.0	101.47	74.03-127.32	1.00U
1,1,1,2-Tetrachloroethane	20.4	ug/L	20.0	101.80	74.08-128.41	0.500U
1,1,1-Trichloroethane	21.8	ug/L	20.0	109.00	74.12-134.44	0.500U
1,1,2,2-Tetrachloroethane	17.1	ug/L	20.0	85.35	70.96-136.31	0.100U
1,1,2-Trichloroethane	18.6	ug/L	20.0	92.75	78.08-124.41	0.500U
1,1-Dichloroethane	20.9	ug/L	20.0	104.70	72.78-134.55	0.500U
1,1-Dichloroethene	21.1	ug/L	20.0	105.35	58.40-151.32	0.500U
1,1-Dichloropropene	20.8	ug/L	20.0	103.95	73.25-137.34	0.200U
1,2,4-trichlorobenzene	18.4	ug/L	20.0	92.20	22.90-145.92	0.500U
1,2-dichloroethane	20.7	ug/L	20.0	103.70	71.53-134.48	0.500U
1,2-dichloropropane	20.4	ug/L	20.0	102.05	74.50-129.66	0.200U
1,3-Dichloropropane	19.4	ug/L	20.0	97.05	72.32-131.54	0.300U
2,2-Dichloropropane	20.6	ug/L	20.0	103.00	61.83-150.70	0.500U
2-Butanone (MEK)	19.4	ug/L	20.0	96.75	64.53-153.74	0.500U
2-Hexanone	19.9	ug/L	20.0	99.35	62.58-147.29	0.500U
Surr:Bromofluorobenzene	10.2	ug/L	10.0	101.80	53.82-151.16	0.500U
Surr:Toluene-d8	9.78	ug/L	10.0	97.80	88.05-109.81	0.500U
Surr:1,2-Dichloroethane-d4	9.88	ug/L	10.0	98.80	75.07-126.19	0.500U



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Quality Control Batch: 10240195

Analyst: CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acetone	19.5	ug/L	20.0	97.30	46.01-156.32	5.00U	3.73	38.47
Acrylonitrile	17.4	ug/L	20.0	87.05	43.40-147.39	0.300U	3.72	24.85
Allyl Chloride	20.1	ug/L	20.0	100.30	80.00-120.00	1.00U	2.52	15.00
Benzene	21.3	ug/L	20.0	106.50	74.48-134.24	0.500U	2.42	18.98
Bromochloromethane	20.7	ug/L	20.0	103.35	73.98-126.75	0.100U	0.48	15.45
Bromodichloromethane	21.0	ug/L	20.0	104.75	74.51-131.60	0.100U	0.86	14.47
Bromoform	18.7	ug/L	20.0	93.70	65.77-126.66	0.500U	0.27	18.89
Bromomethane	21.5	ug/L	20.0	107.50	45.79-154.07	0.500U	10.37	22.97
Carbon Tetrachloride	21.9	ug/L	20.0	109.70	69.71-134.11	0.500U	0.32	18.68
Chlorobenzene	20.6	ug/L	20.0	103.05	78.18-124.63	0.500U	2.11	17.54
Chloroethane	19.6	ug/L	20.0	97.90	57.96-148.61	0.500U	2.17	24.25
Chloroform	21.6	ug/L	20.0	108.15	67.52-139.02	0.500U	1.49	17.36
Chloromethane	19.2	ug/L	20.0	96.15	51.30-156.78	0.500U	6.44	24.58
cis-1,2-dichloroethene	20.7	ug/L	20.0	103.60	76.64-126.84	0.200U	0.39	19.01
cis-1,3-Dichloropropene	20.0	ug/L	20.0	99.90	67.26-137.96	0.500U	1.51	17.79
Dibromochloromethane	19.6	ug/L	20.0	97.95	73.00-123.23	0.400U	0.15	17.16
Dibromomethane	19.8	ug/L	20.0	98.80	73.11-128.50	0.500U	0.46	14.33
Dichlorodifluoromethane	17.7	ug/L	20.0	88.35	31.11-164.64	0.500U	7.76	25.30
Ethyl methacrylate	14.1	ug/L	20.0	70.25	80.00-120.00	0.500U	0.92	15.00
Ethylbenzene	21.4	ug/L	20.0	106.85	73.91-128.64	0.500U	1.75	17.78
Methacrylonitrile	17.6	ug/L	20.0	87.95	80.00-120.00	0.500U	2.69	15.00
Methyl Iodide	31.9	ug/L	20.0	159.55	54.23-165.25	1.00U	16.67	24.15
Methyl isobutyl ketone	18.1	ug/L	20.0	90.50	57.64-133.07	1.00U	1.04	23.20
Methyl Methacrylate	20.4	ug/L	20.0	101.85	80.00-120.00	2.00U	1.94	15.00
Methylene chloride	20.5	ug/L	20.0	102.40	50.29-142.90	1.00U	1.97	22.29
m-dichlorobenzene	19.6	ug/L	20.0	98.05	69.74-129.80	0.500U	0.92	21.29
o-dichlorobenzene	19.5	ug/L	20.0	97.30	71.04-127.37	0.500U	1.87	17.00
Para-dichlorobenzene	19.6	ug/L	20.0	97.95	70.44-126.55	0.500U	1.18	14.84
Styrene	19.5	ug/L	20.0	97.45	68.01-124.71	0.500U	2.13	17.03



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Quality Control Batch: 10240195 Analyst: CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Tetrachloroethene	31.8	ug/L	20.0	159.15	49.77-180.05	0.500U	1.62	27.05
Toluene	21.4	ug/L	20.0	106.90	77.67-128.73	0.500U	1.37	18.11
trans-1,2-dichloroethene	21.2	ug/L	20.0	105.95	71.14-135.42	0.500U	1.81	19.23
trans-1,3-Dichloropropene	19.9	ug/L	20.0	99.25	68.77-131.64	0.500U	1.83	17.05
Trichloroethene	22.2	ug/L	20.0	111.10	77.68-135.38	0.500U	3.25	16.98
Trichlorofluoromethane	20.2	ug/L	20.0	101.10	48.94-159.62	0.500U	1.09	24.90
Vinyl chloride	21.3	ug/L	20.0	106.55	56.51-147.62	0.500U	7.14	21.53
Xylenes	62.0	ug/L	60.0	103.38	74.03-127.32	1.00U	1.87	18.64
1,1,1,2-Tetrachloroethane	20.8	ug/L	20.0	103.85	74.08-128.41	0.500U	1.99	18.35
1,1,1-Trichloroethane	22.1	ug/L	20.0	110.35	74.12-134.44	0.500U	1.23	19.03
1,1,2,2-Tetrachloroethane	16.8	ug/L	20.0	84.05	70.96-136.31	0.100U	1.53	18.50
1,1,2-Trichloroethane	18.5	ug/L	20.0	92.50	78.08-124.41	0.500U	0.27	15.94
1,1-Dichloroethane	21.4	ug/L	20.0	106.75	72.78-134.55	0.500U	1.94	16.44
1,1-Dichloroethene	21.8	ug/L	20.0	109.00	58.40-151.32	0.500U	3.41	23.15
1,1-Dichloropropene	21.0	ug/L	20.0	104.95	73.25-137.34	0.200U	0.96	22.56
1,2,4-trichlorobenzene	18.0	ug/L	20.0	90.20	22.90-145.92	0.500U	2.19	20.25
1,2-dichloroethane	20.7	ug/L	20.0	103.60	71.53-134.48	0.500U	0.10	15.32
1,2-dichloropropane	20.7	ug/L	20.0	103.45	74.50-129.66	0.200U	1.36	16.56
1,3-Dichloropropane	19.5	ug/L	20.0	97.30	72.32-131.54	0.300U	0.26	23.05
2,2-Dichloropropane	20.7	ug/L	20.0	103.70	61.83-150.70	0.500U	0.68	23.34
2-Butanone (MEK)	18.4	ug/L	20.0	92.05	64.53-153.74	0.500U	4.98	32.53
2-Hexanone	19.1	ug/L	20.0	95.40	62.58-147.29	0.500U	4.06	25.26
Surr:Bromofluorobenzene	10.1	ug/L	10.0	101.10	53.82-151.16		0.69	13.51
Surr:Toluene-d8	9.74	ug/L	10.0	97.40	88.05-109.81		0.41	7.44
Surr:1,2-Dichloroethane-d4	9.85	ug/L	10.0	98.50	75.07-126.19		0.30	8.75

Quality Control Batch: 10240217 Analyst: DLJ

Blank	Result	Units
1,2,3-Trichloropropane	0.0200U	ug/L



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Quality Control Batch: 10240217 Analyst: DLJ

Blank	Result	Units
1,2-Dibromoethane (EDB)	0.0100U	ug/L
1,2-dibromo-3-chloropropane	0.0200U	ug/L

Laboratory Control Sample

1,2,3-Trichloropropane	Result	Units	Spike	%REC	%REC Lim
1,2,3-Trichloropropane	0.296	ug/L	0.250	118.54	80.00-120.00
1,2-Dibromoethane (EDB)	0.271	ug/L	0.250	108.50	71.37-128.24
1,2-dibromo-3-chloropropane	0.248	ug/L	0.250	99.13	56.44-144.91

Matrix Spike

1,2,3-Trichloropropane	Result	Units	Spike	%REC	%REC Lim	Sample
1,2,3-Trichloropropane	0.288	ug/L	0.250	115.07	80.00-120.00	0.0200U
1,2-Dibromoethane (EDB)	0.236	ug/L	0.250	94.53	68.22-125.80	0.0100U
1,2-dibromo-3-chloropropane	0.247	ug/L	0.250	98.80	60.03-124.62	0.0200U

Matrix Spike Duplicate

1,2,3-Trichloropropane	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
1,2,3-Trichloropropane	0.289	ug/L	0.250	115.44	80.00-120.00	0.0200U	0.33
1,2-Dibromoethane (EDB)	0.239	ug/L	0.250	95.75	68.22-125.80	0.0100U	1.28
1,2-dibromo-3-chloropropane	0.235	ug/L	0.250	94.04	60.03-124.62	0.0200U	4.94

Quality Control Batch: 10240276 Analyst: PLB

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample

TDS	Result	Units	Spike	%REC	%REC Lim
TDS	1480	mg/L	1500	98.93	88.20-108.17

Quality Control Batch: 10240309 Analyst: EVB

Blank	Result	Units
Mercury	0.0000200U	mg/L



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E86562 (South Lab)
E82405 (North Lab)
E35834 (Keys Lab)

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PO #: 40612
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Quality Control Batch: 10240309 Analyst: EVB

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Mercury	0.00101	mg/L	0.00100	100.80	90.27-115.31	0.0000200U	8.88
Matrix Spike							
Mercury	0.00296	mg/L	0.00300	98.73	81.00-122.08	0.0000200U	5.07
Matrix Spike Duplicate							
Mercury	0.00312	mg/L	0.00300	103.87	81.00-122.08	0.0000200U	13.84

Quality Control Batch: 10240351 Analyst: PCW

Blank	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Ammonia (as N)	0.0100U	mg/L	0.500	104.80	80.72-118.76	-0.109	1.48
Laboratory Control Sample							
Ammonia (as N)	0.524	mg/L	0.780	99.74	54.58-133.65	-0.109	5.07
Matrix Spike							
Ammonia (as N)	0.669	mg/L	0.780	101.03	54.58-133.65	-0.109	13.84
Matrix Spike Duplicate							
Ammonia (as N)	0.679	mg/L	0.780	101.03	54.58-133.65	-0.109	1.48

Quality Control Batch: 10240498 Analyst: CLS

Blank	Result	Units
Surr:2-Fluorophenol	19.3	ug/L



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Quality Control Batch: 10240498		Analyst: CLS	
Laboratory Control Sample	Result	Units	Spike
Surr:2-Fluorophenol	22.5	ug/L	50.0
			%REC 44.94
			%REC Lim 20.00-120.00
Matrix Spike	Result	Units	Spike
Surr:2-Fluorophenol	1.05	ug/L	50.0
			%REC 2.10
			%REC Lim 80.00-120.00
Matrix Spike Duplicate	Result	Units	Spike
Surr:2-Fluorophenol	1.15	ug/L	50.0
			%REC 2.30
			%REC Lim 80.00-120.00
			RPD 9.09
			RPD Lim 18.78

Quality Control Batch: 10240499		Analyst: CLS	
Blank	Result	Units	Spike
Acenaphthene	2.00U	ug/L	
Acenaphthylene	2.00U	ug/L	
Acetophenone	10.0U	ug/L	
Anthracene	2.00U	ug/L	
Benzo(a)anthracene	0.200U	ug/L	
Benzo(a)pyrene	1.00U	ug/L	
Benzo(b)fluoranthene	0.100U	ug/L	
Benzo(g,h,i)perylene	2.00U	ug/L	
Benzo(k)fluoranthene	1.00U	ug/L	
Benzyl alcohol	5.00U	ug/L	
Bis(2-chloroethoxy)methane	2.00U	ug/L	
Bis(2-chloroethyl)ether	2.00U	ug/L	
Bis(2-ethylhexyl)phthalate	3.00U	ug/L	
Butyl benzyl phthalate	3.00U	ug/L	
Chlorobenzilate	0.800U	ug/L	
Chrysene	2.00U	ug/L	
Diallylate	2.00U	ug/L	
Dibenzofuran	5.00U	ug/L	
Dibenz(a,h)anthracene	0.200U	ug/L	



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Quality Control Batch: 10240499

Analyst: CLS

Blank	Result	Units
Diethylphthalate	3.00U	ug/L
Dimethoate	2.00U	ug/L
Dimethylphthalate	3.00U	ug/L
Diphenylamine	10.0U	ug/L
Di-n-butylphthalate	3.00U	ug/L
Di-n-octylphthalate	3.00U	ug/L
Ethyl methanesulfonate	20.0U	ug/L
Famphur	2.00U	ug/L
Fluoranthene	2.00U	ug/L
Fluorene	2.00U	ug/L
Hexachlorobenzene	1.00U	ug/L
Hexachlorobutadiene	2.00U	ug/L
Hexachlorocyclopentadiene	2.00U	ug/L
Hexachloroethane	2.00U	ug/L
Hexachloropropene	10.0U	ug/L
Indeno(1,2,3-cd)pyrene	0.200U	ug/L
Isodrin	20.0U	ug/L
Isophorone	2.00U	ug/L
Isosafrole	10.0U	ug/L
Kepone	2.00U	ug/L
Methapyrilene	20.0U	ug/L
Methyl methanesulfonate	10.0U	ug/L
m-Cresol	10.0U	ug/L
m-Dinitrobenzene	2.00U	ug/L
m-nitroaniline	2.00U	ug/L
Naphthalene	2.00U	ug/L
Nitrobenzene	2.00U	ug/L
N-Nitroso di-n-butylamine	2.00U	ug/L
N-Nitrosodiethylamine	3.00U	ug/L



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Analyst: CLS

Blank	Result	Units
	3.00U	ug/L
N-Nitrosodimethylamine	2.00U	ug/L
N-Nitrosodiphenylamine	2.00U	ug/L
N-Nitrosodi-n-propylamine	2.00U	ug/L
N-Nitrosomethyllethylamine	10.0U	ug/L
N-Nitrosopiperidine	2.00U	ug/L
N-Nitrosopyrrolidine	10.0U	ug/L
O,O,O-Triethylphosphorothioate	10.0U	ug/L
O,O-diethyl-O,2-pyrazinylphosphorothioate	2.00U	ug/L
o-Cresol	10.0U	ug/L
o-nitroaniline	2.00U	ug/L
o-Toluidine	0.300U	ug/L
Pentachlorobenzene	0.300U	ug/L
Pentachloronitrobenzene	0.400U	ug/L
Pentachlorophenol	20.0U	ug/L
Phenacetin	2.00U	ug/L
Phenanthrene	2.00U	ug/L
Phenol	10.0U	ug/L
Pronamide	2.00U	ug/L
Pyrene	10.0U	ug/L
p-Chloroaniline	2.00U	ug/L
p-Chloro-m-Cresol	2.00U	ug/L
p-Cresol	2.00U	ug/L
p-nitroaniline	10.0U	ug/L
p-Phenylenediamine	10.0U	ug/L
p-(Dimethylamino)azobenzene	10.0U	ug/L
Saffrole	10.0U	ug/L
Trinitrobenzene	10.0U	ug/L
1,2,4,5-Tetrachlorobenzene	2.00U	ug/L
1,4-Naphthoquinone	10.0U	ug/L



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Quality Control Batch: 10240499

Analyst: CLS

Blank	Result	Units
1-Naphthalamine	10.0U	ug/L
2,3,4,6-Tetrachlorophenol	2.00U	ug/L
2,4,5-Trichlorophenol	1.00U	ug/L
2,4,6-Trichlorophenol	2.00U	ug/L
2,4-Dichlorophenol	1.00U	ug/L
2,4-Dimethylphenol	2.00U	ug/L
2,4-Dinitrophenol	5.00U	ug/L
2,4-Dinitrotoluene	0.200U	ug/L
2,6-Dichlorophenol	1.00U	ug/L
2,6-Dinitrotoluene	2.00U	ug/L
2-Acetylaminofluorene	10.0U	ug/L
2-Chloronaphthalene	2.00U	ug/L
2-chlorophenol	2.00U	ug/L
2-methyl-Naphthalene	2.00U	ug/L
2-methyl-4,6-dinitrophenol	2.00U	ug/L
2-Naphthylamine	2.00U	ug/L
2-Nitrophenol	2.00U	ug/L
3,3'-Dichlorobenzidine	2.00U	ug/L
3,3'-Dimethylbenzidine	2.00U	ug/L
3-Methylcholanthrene	10.0U	ug/L
4-Aminobiphenyl	10.0U	ug/L
4-Bromophenylphenyl ether	2.00U	ug/L
4-Chlorophenylphenyl ether	2.00U	ug/L
4-Nitrophenol	2.00U	ug/L
5-Nitro-o-toluidine	2.00U	ug/L
7,12-Dimethylbenz(a)anthracene	10.0U	ug/L
Surr: Nitrobenzene-d5	38.7	ug/L
Surr: Phenol-d5	12.8	ug/L
Surr: Terphenyl-d14	39.4	ug/L



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Analyst: CLS

Blank Result Units

Surr: 2,4,6-Tribromophenol 28.5 ug/L
Surr: 2-Fluorobiphenyl 36.2 ug/L

Laboratory Control Sample

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Acenaphthene	19.8	ug/L	25.0	79.16	19.43-110.82
Acenaphthylene	17.2	ug/L	25.0	68.68	11.73-114.82
Anthracene	18.9	ug/L	25.0	75.48	35.89-115.69
Benzo(a)anthracene	17.5	ug/L	25.0	70.04	41.93-129.99
Benzo(a)pyrene	15.4	ug/L	25.0	61.56	39.40-119.98
Benzo(b)fluoranthene	20.4	ug/L	25.0	81.48	31.36-135.33
Benzo(g,h,i)perylene	15.0	ug/L	25.0	60.00	46.39-130.38
Benzo(k)fluoranthene	17.1	ug/L	25.0	68.44	33.95-145.70
Bis(2-chloroethoxy)methane	18.2	ug/L	25.0	72.80	20.91-104.32
Bis(2-chloroethyl)ether	16.7	ug/L	25.0	66.96	18.37-99.13
Bis(2-ethylhexyl)phthalate	21.2	ug/L	25.0	84.96	49.06-144.86
Butyl benzyl phthalate	21.9	ug/L	25.0	87.48	7.48-144.10
Chrysene	20.1	ug/L	25.0	80.52	46.72-134.45
Dibenz(a,h)anthracene	15.1	ug/L	25.0	60.36	37.64-133.88
Diethylphthalate	21.2	ug/L	25.0	84.88	18.85-127.83
Dimethylphthalate	20.1	ug/L	25.0	80.52	14.66-119.16
Di-n-butylphthalate	21.8	ug/L	25.0	87.32	11.05-132.80
Di-n-octylphthalate	16.6	ug/L	25.0	66.32	47.68-133.80
Fluoranthene	20.3	ug/L	25.0	81.16	24.34-134.54
Fluorene	21.0	ug/L	25.0	83.96	19.06-111.25
Hexachlorobenzene	21.2	ug/L	25.0	84.92	28.31-127.72
Hexachlorobutadiene	16.4	ug/L	25.0	65.44	17.28-108.31
Hexachlorocyclopentadiene	2.80	ug/L	25.0	11.20	9.79-126.19
Hexachloroethane	29.1	ug/L	25.0	116.52	20.94-88.14
Indeno(1,2,3-cd)pyrene	14.8	ug/L	25.0	59.24	37.85-143.45



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Laboratory Control Sample

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Isophorone	18.4	ug/L	25.0	73.60	15.48-109.35
Naphthalene	18.9	ug/L	25.0	75.44	22.76-100.00
Nitrobenzene	18.9	ug/L	25.0	75.68	16.67-101.87
N-Nitrosodimethylamine	17.8	ug/L	25.0	71.20	12.84-110.84
N-Nitrosodiphenylamine	14.9	ug/L	25.0	59.44	20.14-136.25
N-Nitrosodi-n-propylamine	16.2	ug/L	25.0	64.76	7.78-121.66
o-Cresol	11.2	ug/L	25.0	44.80	31.85-96.90
Pentachlorophenol	13.2	ug/L	25.0	52.64	22.28-137.29
Phenanthrene	20.4	ug/L	25.0	81.68	33.30-113.56
Phenol	10.1	ug/L	25.0	40.28	22.51-89.77
Pyrene	20.7	ug/L	25.0	82.68	42.73-127.70
p-Chloro-m-Cresol	12.4	ug/L	25.0	49.64	23.38-107.86
p-Cresol	10.8	ug/L	25.0	43.08	70.00-120.00
2,4,5-Trichlorophenol	11.5	ug/L	25.0	46.08	42.66-114.96
2,4,6-Trichlorophenol	11.2	ug/L	25.0	44.84	80.00-120.00
2,4-Dichlorophenol	11.4	ug/L	25.0	45.40	20.31-101.72
2,4-Dimethylphenol	9.05	ug/L	25.0	36.20	7.63-107.79
2,4-Dinitrophenol	8.13	ug/L	25.0	32.52	9.34-139.66
2,4-Dinitrotoluene	18.2	ug/L	25.0	72.80	32.19-126.79
2,6-Dinitrotoluene	19.5	ug/L	25.0	78.04	27.21-115.54
2-Chloronaphthalene	13.4	ug/L	25.0	53.64	18.48-106.95
2-chlorophenol	12.3	ug/L	25.0	49.00	26.80-96.34
2-methyl-Naphthalene	16.2	ug/L	25.0	64.96	19.08-101.21
2-methyl-4,6-dinitrophenol	13.2	ug/L	25.0	52.96	28.26-128.29
2-Nitrophenol	12.2	ug/L	25.0	48.84	17.49-107.10
4-Bromophenylphenyl ether	20.0	ug/L	25.0	80.00	20.05-126.55
4-Chlorophenylphenyl ether	19.8	ug/L	25.0	79.08	12.26-120.37
4-Nitrophenol	7.52	ug/L	25.0	30.08	18.72-121.25
Surr: Nitrobenzene-d5	38.7	ug/L	50.0	77.40	50.00-125.00



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Analyst: CLS

Laboratory Control Sample

Surr:	Phenol-d5	Terphenyl-d14	2,4,6-Tribromophenol	2-Fluorobiphenyl
Result	22.2	38.4	31.4	35.5
Units	ug/L	ug/L	ug/L	ug/L
Spike	50.0	50.0	50.0	50.0
%REC	44.38	76.82	62.78	70.96
%REC Lim	10.00-110.00	35.00-125.00	25.00-125.00	25.00-125.00

Matrix Spike

Sample	Result	Units	Spike	%REC	%REC Lim
Acenaphthene	1.00	ug/L	25.0	4.00	24.01-102.00
Acenaphthylene	0.660	ug/L	25.0	2.64	15.89-118.25
Anthracene	2.24	ug/L	25.0	8.96	36.35-119.37
Benzo(a)anthracene	5.75	ug/L	25.0	23.00	22.93-131.37
Benzo(a)pyrene	2.48	ug/L	25.0	9.92	28.55-113.30
Benzo(b)fluoranthene	18.4	ug/L	25.0	73.48	3.39-132.21
Benzo(g,h,i)perylene	6.17	ug/L	25.0	24.68	29.74-126.64
Benzo(k)fluoranthene	13.1	ug/L	25.0	52.28	0.00-172.28
Bis(2-chloroethoxy)methane	16.5	ug/L	25.0	66.16	18.79-84.90
Bis(2-chloroethyl)ether	18.0	ug/L	25.0	72.00	31.14-66.69
Bis(2-ethylhexyl)phthalate	28.0	ug/L	25.0	111.96	45.78-149.57
Butyl benzyl phthalate	22.5	ug/L	25.0	90.08	8.98-167.94
Chrysene	16.3	ug/L	25.0	65.24	21.81-143.20
Dibenz(a,h)anthracene	10.6	ug/L	25.0	42.44	14.09-128.46
Diethylphthalate	20.1	ug/L	25.0	80.32	1.00-100.00
Dimethylphthalate	20.0	ug/L	25.0	79.84	1.00-124.78
Di-n-butylphthalate	21.9	ug/L	25.0	87.44	27.77-132.10
Di-n-octylphthalate	17.3	ug/L	25.0	69.32	44.56-151.00
Fluoranthene	17.9	ug/L	25.0	71.52	20.92-125.32
Fluorene	18.6	ug/L	25.0	74.24	15.17-114.79
Hexachlorobenzene	21.7	ug/L	25.0	86.68	39.18-107.37
Hexachlorobutadiene	15.9	ug/L	25.0	63.72	19.64-107.65
Hexachlorocyclopentadiene	4.97	ug/L	25.0	19.88	21.11-153.35



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Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Hexachloroethane	15.9	ug/L	25.0	63.48	0.00-145.15	2.00U
Indeno(1,2,3-cd)pyrene	7.68	ug/L	25.0	30.72	13.91-145.82	0.200U
Isophorone	16.9	ug/L	25.0	67.56	23.01-78.93	2.00U
Naphthalene	16.7	ug/L	25.0	66.72	9.17-110.12	2.00U
Nitrobenzene	19.5	ug/L	25.0	78.16	80.00-120.00	2.00U
N-Nitrosodimethylamine	16.5	ug/L	25.0	65.92	0.00-129.97	3.00U
N-Nitrosodiphenylamine	0.680	ug/L	25.0	2.72	18.25-143.12	2.00U
N-Nitrosodi-n-propylamine	15.6	ug/L	25.0	62.32	19.99-90.09	2.00U
Pentachlorophenol	15.7	ug/L	25.0	62.80	33.93-127.96	0.400U
Phenanthrene	7.56	ug/L	25.0	30.24	19.47-133.87	2.00U
Pyrene	5.44	ug/L	25.0	21.76	21.53-149.12	2.00U
p-Chloro-m-Cresol	2.30	ug/L	25.0	9.20	21.61-109.88	2.00U
2,4,5-Trichlorophenol	8.86	ug/L	25.0	35.44	80.00-120.00	1.00U
2,4,6-Trichlorophenol	14.0	ug/L	25.0	56.00	24.26-90.82	2.00U
2,4-Dichlorophenol	15.0	ug/L	25.0	59.80	3.49-115.80	1.00U
2,4-Dinitrophenol	9.94	ug/L	25.0	39.76	9.63-157.09	5.00U
2,4-Dinitrotoluene	16.6	ug/L	25.0	66.52	21.53-131.97	0.200U
2,6-Dinitrotoluene	19.5	ug/L	25.0	77.92	2.57-141.27	2.00U
2-Chloronaphthalene	12.1	ug/L	25.0	48.28	32.50-75.12	2.00U
2-chlorophenol	18.2	ug/L	25.0	72.76	80.00-120.00	2.00U
2-methyl-Naphthalene	0.710	ug/L	25.0	2.84	23.63-87.85	2.00U
2-methyl-4,6-dinitrophenol	14.9	ug/L	25.0	59.40	9.66-145.51	2.00U
2-Nitrophenol	14.6	ug/L	25.0	58.36	30.89-79.77	2.00U
4-Bromophenylphenyl ether	19.2	ug/L	25.0	76.72	28.41-111.16	2.00U
4-Chlorophenylphenyl ether	18.2	ug/L	25.0	72.76	9.01-119.69	2.00U
4-Nitrophenol	7.96	ug/L	25.0	31.84	29.44-124.00	2.00U
Surr:Nitrobenzene-d5	38.4	ug/L	50.0	76.86	11.76-107.00	
Surr:Phenol-d5	17.3	ug/L	50.0	34.58	80.00-120.00	
Surr:Terphenyl-d14	37.5	ug/L	50.0	75.00	6.08-149.12	



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PO #: 40612
 Client Project #: HARDEE COUNTY REGIONAL LAN
 Date Sampled: Dec 27, 2013
 Jan 9, 2014; Invoice: 224461

Quality Control Batch: 10240499

Analyst: CLS

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Surr:2,4,6-Tribromophenol	29.4	ug/L	50.0	58.88	6.92-122.06	2.00U	13.90	21.67
Surr:2-Fluorobiphenyl	31.4	ug/L	50.0	62.80	16.08-95.65	2.00U	16.39	18.46
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acenaphthene	0.870	ug/L	25.0	3.48	24.01-102.00	2.00U	13.90	21.67
Acenaphthylene	0.560	ug/L	25.0	2.24	15.89-118.25	2.00U	16.39	18.46
Anthracene	2.57	ug/L	25.0	10.28	36.35-119.37	2.00U	13.72	10.13
Benzo(a)anthracene	5.66	ug/L	25.0	22.64	22.93-131.37	0.200U	1.58	9.54
Benzo(a)pyrene	2.17	ug/L	25.0	8.68	28.55-113.30	1.00U	13.33	14.14
Benzo(b)fluoranthene	17.0	ug/L	25.0	68.12	3.39-132.21	0.100U	7.57	14.63
Benzo(g,h,i)perylene	5.53	ug/L	25.0	22.12	29.74-126.64	2.00U	10.94	17.03
Benzo(k)fluoranthene	11.7	ug/L	25.0	46.84	0.00-172.28	1.00U	10.98	16.07
Bis(2-chloroethoxy)methane	19.4	ug/L	25.0	77.52	18.79-84.90	2.00U	15.81	16.75
Bis(2-chloroethyl)ether	18.0	ug/L	25.0	71.80	31.14-66.69	2.00U	0.28	17.90
Bis(2-ethylhexyl)phthalate	20.0	ug/L	25.0	79.96	45.78-149.57	3.00U	33.35	10.12
Butyl benzyl phthalate	21.6	ug/L	25.0	86.24	8.98-167.94	3.00U	4.36	4.98
Chrysene	14.2	ug/L	25.0	56.92	21.81-143.20	2.00U	13.62	13.79
Dibenz(a,h)anthracene	9.90	ug/L	25.0	39.60	14.09-128.46	0.200U	6.92	13.26
Diethylphthalate	21.4	ug/L	25.0	85.40	1.00-100.00	3.00U	6.13	19.12
Dimethylphthalate	20.7	ug/L	25.0	82.84	1.00-124.78	3.00U	3.69	13.85
Di-n-butylphthalate	21.5	ug/L	25.0	85.92	27.77-132.10	3.00U	1.75	10.19
Di-n-octylphthalate	14.6	ug/L	25.0	58.48	44.56-151.00	3.00U	16.96	11.27
Fluoranthene	18.4	ug/L	25.0	73.68	20.92-125.32	2.00U	2.98	13.82
Fluorene	19.2	ug/L	25.0	76.88	15.17-114.79	2.00U	3.49	15.89
Hexachlorobenzene	20.5	ug/L	25.0	81.88	39.18-107.37	1.00U	5.70	7.77
Hexachlorobutadiene	16.6	ug/L	25.0	66.40	19.64-107.65	2.00U	4.12	13.24
Hexachlorocyclopentadiene	6.32	ug/L	25.0	25.28	21.11-153.35	2.00U	23.91	13.50
Hexachloroethane	28.9	ug/L	25.0	115.76	0.00-145.15	2.00U	58.34	11.44
Indeno(1,2,3-cd)pyrene	7.22	ug/L	25.0	28.88	13.91-145.82	0.200U	6.17	16.14



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Quality Control Batch: 10240499

Analyst: CLS

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Isophorone	17.7	ug/L	25.0	70.72	23.01-78.93	2.00U	4.57	17.92
Naphthalene	16.6	ug/L	25.0	66.48	9.17-110.12	2.00U	0.36	18.47
Nitrobenzene	17.6	ug/L	25.0	70.36	80.00-120.00	2.00U	10.50	14.30
N-Nitrosodimethylamine	15.9	ug/L	25.0	63.52	0.00-129.97	3.00U	3.71	19.85
N-Nitrosodi-n-propylamine	16.8	ug/L	25.0	67.24	19.99-90.09	2.00U	7.59	18.67
Pentachlorophenol	17.4	ug/L	25.0	69.40	33.93-127.96	0.400U	9.98	7.50
Phenanthrene	7.12	ug/L	25.0	28.48	19.47-133.87	2.00U	5.99	13.53
Pyrene	5.38	ug/L	25.0	21.52	21.53-149.12	2.00U	1.11	12.69
2,4,5-Trichlorophenol	12.4	ug/L	25.0	49.44	80.00-120.00	1.00U	32.99	9.77
2,4,6-Trichlorophenol	20.3	ug/L	25.0	81.36	24.26-90.82	2.00U	36.92	11.70
2,4-Dichlorophenol	19.7	ug/L	25.0	78.60	3.49-115.80	1.00U	27.17	14.90
2,4-Dinitrophenol	13.3	ug/L	25.0	53.24	9.63-157.09	5.00U	28.99	14.19
2,6-Dinitrotoluene	18.7	ug/L	25.0	74.68	21.53-131.97	0.200U	11.56	8.90
2,6-Dinitrotoluene	20.2	ug/L	25.0	80.64	2.57-141.27	2.00U	3.43	7.60
2-Chloronaphthalene	14.8	ug/L	25.0	59.08	32.50-75.12	2.00U	20.12	19.02
2-chlorophenol	20.5	ug/L	25.0	81.80	80.00-120.00	2.00U	11.70	13.95
2-methyl-Naphthalene	0.660	ug/L	25.0	2.64	23.63-87.85	2.00U	7.30	22.66
2-methyl-4,6-dinitrophenol	17.2	ug/L	25.0	68.60	9.66-145.51	2.00U	14.37	7.43
2-Nitrophenol	16.7	ug/L	25.0	66.84	30.89-79.77	2.00U	13.55	13.79
4-Bromophenylphenyl ether	19.3	ug/L	25.0	77.04	28.41-111.16	2.00U	0.42	8.59
4-Chlorophenylphenyl ether	19.2	ug/L	25.0	76.96	9.01-119.69	2.00U	5.61	14.26
4-Nitrophenol	9.38	ug/L	25.0	37.52	29.44-124.00	2.00U	16.38	8.63
Surr:Nitrobenzene-d5	40.6	ug/L	50.0	81.26	11.76-107.00		5.57	23.39
Surr:Phenol-d5	24.8	ug/L	50.0	49.52	80.00-120.00		35.53	15.83
Surr:Terphenyl-d14	36.1	ug/L	50.0	72.12	6.08-149.12		3.92	20.47
Surr:2,4,6-Tribromophenol	32.2	ug/L	50.0	64.42	6.92-122.06		8.99	20.79
Surr:2-Fluorobiphenyl	40.3	ug/L	50.0	80.64	16.08-95.65		24.87	22.83



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Quality Control Batch: 10240501

Analyst: DLJ

Blank	Result	Units
Dinoseb	0.250U	ug/L
2,4,5-T	0.250U	ug/L
2,4,5-TP (Silvex)	0.250U	ug/L
2,4-D	0.250U	ug/L
Surr:DCAA	14.4	ug/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
2.27	ug/L	2.50	90.75	5.11-142.66
2.43	ug/L	2.50	97.39	34.56-147.46
2.37	ug/L	2.50	94.89	37.29-145.64
2.46	ug/L	2.50	98.59	31.42-153.84
14.4	ug/L	12.5	115.08	38.28-150.04

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
3.51	ug/L	2.50	140.51	80.00-120.00	0.250U
3.09	ug/L	2.50	123.62	80.00-120.00	0.250U
2.56	ug/L	2.50	102.29	80.00-120.00	0.250U
2.62	ug/L	2.50	104.79	80.00-120.00	0.250U
15.5	ug/L	12.5	123.95	80.00-120.00	0.250U

Matrix Spike Duplicate

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
3.49	ug/L	2.50	139.74	80.00-120.00	0.250U	0.55	2.76
2.82	ug/L	2.50	112.76	80.00-120.00	0.250U	9.19	1.49
2.94	ug/L	2.50	117.76	80.00-120.00	0.250U	14.06	2.77
3.13	ug/L	2.50	125.38	80.00-120.00	0.250U	17.89	13.56
16.2	ug/L	12.5	129.74	80.00-120.00	0.250U	4.57	10.31

Quality Control Batch: 10240502

Analyst: DLJ

Blank	Result	Units
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Analyst: DLJ

Blank	Result	Units
Aldrin	0.0200U	ug/L
a-BHC	0.0200U	ug/L
b-BHC	0.0100U	ug/L
Chlordane	0.0100U	ug/L
Dieldrin	0.0200U	ug/L
d-BHC	0.0100U	ug/L
Endosulfan_I	0.0100U	ug/L
Endosulfan_II	0.0100U	ug/L
Endosulfan_sulfate	0.0200U	ug/L
Endrin	0.0100U	ug/L
Endrin_Aldehyde	0.0200U	ug/L
Heptachlor	0.0100U	ug/L
Heptachlor epoxide	0.0100U	ug/L
Lindane (g-BHC)	0.0100U	ug/L
Methoxychlor	0.0100U	ug/L
Toxaphene	0.500U	ug/L
4,4'-DDD	0.0200U	ug/L
4,4'-DDE	0.0200U	ug/L
4,4'-DDT	0.0200U	ug/L
Surr:Decachlorobiphenyl	0.415	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Aldrin	0.104	ug/L	0.125	83.51	12.83-113.48
a-BHC	0.142	ug/L	0.125	113.92	12.52-115.93
b-BHC	0.155	ug/L	0.125	123.92	32.71-121.18
Chlordane	0.331	ug/L	0.250	132.58	71.76-138.79
Dieldrin	0.159	ug/L	0.125	126.93	34.19-127.26
d-BHC	0.0928	ug/L	0.125	74.23	28.63-108.97
Endosulfan_I	0.156	ug/L	0.125	125.14	18.33-120.63



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Laboratory Control Sample

Endosulfan_II	Endosulfan_sulfate	Endrin	Endrin_Aldehyde	Heptachlor	Heptachlor epoxide	Lindane (g-BHC)	Methoxychlor	4,4'-DDD	4,4'-DDE	4,4'-DDT	Surr:Decachlorobiphenyl
0.163	0.141	0.166	0.132	0.147	0.163	0.150	0.193	0.154	0.154	0.174	0.459
ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.500
%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
130.66	112.87	133.20	105.93	117.87	130.79	119.89	154.76	123.47	123.14	139.03	91.72
%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim
37.06-132.85	23.13-147.35	61.31-151.63	35.08-136.28	71.93-136.13	72.05-132.82	67.43-132.32	35.57-159.59	34.70-139.82	29.61-130.24	33.43-137.17	26.32-128.90

Matrix Spike

Aldrin	a-BHC	b-BHC	Chlordane	Dieldrin	d-BHC	Endosulfan_I	Endosulfan_II	Endosulfan_sulfate	Endrin	Endrin_Aldehyde	Heptachlor	Heptachlor epoxide	Lindane (g-BHC)	Methoxychlor
0.102	0.147	0.134	0.361	0.151	0.124	0.121	0.139	0.140	0.222	0.129	0.143	0.163	0.140	0.202
ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
0.125	0.125	0.125	0.250	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
81.23	117.27	107.46	144.49	120.78	99.56	97.14	111.60	111.80	177.99	102.88	114.25	130.22	112.10	161.88
%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim	%REC Lim
80.00-120.00	80.00-120.00	32.71-121.18	80.00-120.00	34.19-127.26	80.00-120.00	80.00-120.00	80.00-120.00	80.00-120.00	57.84-145.43	80.00-120.00	66.41-135.41	66.19-134.11	62.39-132.52	80.00-120.00
Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample
0.0200U	0.0200U	0.0100U	0.0100U	0.0200U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0200U	0.0100U	0.0100U	0.0100U	0.0100U



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Matrix Spike

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0.149	ug/L	0.125	119.27	34.70-139.82	0.0200U	58.33	2.80
0.137	ug/L	0.125	109.73	80.00-120.00	0.0200U	0.29	3.06
0.180	ug/L	0.125	143.62	80.00-120.00	0.0200U	3.12	8.19
0.546	ug/L	0.500	109.30	80.00-120.00	0.0200U	41.47	5.16

Matrix Spike Duplicate

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
0.185	ug/L	0.125	148.13	80.00-120.00	0.0200U	58.33	2.80
0.147	ug/L	0.125	117.62	80.00-120.00	0.0200U	0.29	3.06
0.130	ug/L	0.125	104.15	32.71-121.18	0.0100U	3.12	8.19
0.550	ug/L	0.250	220.08	80.00-120.00	0.0100U	41.47	5.16
0.342	ug/L	0.125	273.42	34.19-127.26	0.0200U	77.44	4.19
0.153	ug/L	0.125	122.02	80.00-120.00	0.0100U	20.28	3.65
0.222	ug/L	0.125	177.80	80.00-120.00	0.0100U	58.68	5.87
0.229	ug/L	0.125	183.15	80.00-120.00	0.0100U	48.55	0.38
0.143	ug/L	0.125	114.61	80.00-120.00	0.0200U	2.48	3.52
0.284	ug/L	0.125	226.92	57.84-145.43	0.0100U	24.17	3.71
0.160	ug/L	0.125	127.84	80.00-120.00	0.0200U	21.63	7.56
0.173	ug/L	0.125	138.18	66.41-135.41	0.0100U	18.96	2.19
0.432	ug/L	0.125	345.35	66.19-134.11	0.0100U	90.47	8.06
0.139	ug/L	0.125	111.12	62.39-132.52	0.0100U	0.88	3.35
0.194	ug/L	0.125	154.94	80.00-120.00	0.0100U	4.38	4.99
0.226	ug/L	0.125	181.08	34.70-139.82	0.0200U	41.16	1.36
0.250	ug/L	0.125	200.15	80.00-120.00	0.0200U	58.35	3.64
0.228	ug/L	0.125	182.36	80.00-120.00	0.0200U	23.76	3.64
0.541	ug/L	0.500	108.29	80.00-120.00	0.0200U	0.93	17.86

Quality Control Batch: 10240582 Analyst: DLJ

Blank

Result	Units
0.100U	ug/L

Arochlor 1016



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Date Sampled: Dec 27, 2013
Jan 9, 2014; Invoice: 224461

Quality Control Batch: 10240582		Analyst: DLJ	
Blank	Result	Units	
Arochlor 1221	0.100U	ug/L	
Arochlor 1232	0.100U	ug/L	
Arochlor 1242	0.100U	ug/L	
Arochlor 1248	0.100U	ug/L	
Arochlor 1254	0.100U	ug/L	
Arochlor 1260	0.100U	ug/L	
Laboratory Control Sample	Result	Units	Spike
Arochlor 1232	9.29	ug/L	10.0
			%REC
			92.94
			%REC Lim
			80.00-120.00
Matrix Spike	Result	Units	Sample
Arochlor 1232	7.46	ug/L	10.0
			%REC
			74.62
			%REC Lim
			80.00-120.00
Matrix Spike Duplicate	Result	Units	Sample
Arochlor 1232	7.36	ug/L	10.0
			%REC
			73.58
			%REC Lim
			80.00-120.00
			RPD
			1.40
			RPD Lim
			15.00

Quality Control Batch: 10240585		Analyst: PCW	
Blank	Result	Units	
Cyanide	0.00500U	mg/L	
Laboratory Control Sample	Result	Units	Spike
Cyanide	0.0971	mg/L	0.100
			%REC
			97.10
			%REC Lim
			46.95-133.05
Matrix Spike	Result	Units	Sample
Cyanide	0.0868	mg/L	0.0800
			%REC
			109.73
			%REC Lim
			49.05-125.20
Matrix Spike Duplicate	Result	Units	Sample
Cyanide	0.0866	mg/L	0.0800
			%REC
			109.48
			%REC Lim
			49.05-125.20
			RPD
			0.23
			RPD Lim
			23.62



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Quality Control Batch: 10240594 Analyst: DLJ

Blank	Result	Units
Disulfoton	0.300U	ug/L
Ethyl Parathion	0.500U	ug/L
Methyl Parathion	0.500U	ug/L
Phorate	1.00U	ug/L
Surr:CI-NBTF	44.1	ug/L

Laboratory Control Sample

Disulfoton	Result	Units	Spike	%REC	%REC Lim
Ethyl Parathion	3.04	ug/L	4.00	76.12	33.40-167.19
Methyl Parathion	2.10	ug/L	4.00	52.55	80.00-120.00
Phorate	2.40	ug/L	4.00	59.94	20.01-160.55
Surr:CI-NBTF	3.73	ug/L	4.00	93.18	29.28-161.04
	30.9	ug/L	32.0	96.61	70.00-130.00

Matrix Spike

Disulfoton	Result	Units	Spike	%REC	%REC Lim	Sample
Ethyl Parathion	3.66	ug/L	4.00	91.45	70.00-130.00	0.300U
Methyl Parathion	2.10	ug/L	4.00	52.51	80.00-120.00	0.500U
Phorate	2.51	ug/L	4.00	62.70	70.00-130.00	0.500U
Surr:CI-NBTF	4.64	ug/L	4.00	116.00	70.00-130.00	1.00U
	40.4	ug/L	32.0	126.19	70.00-130.00	

Matrix Spike Duplicate

Disulfoton	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ethyl Parathion	3.27	ug/L	4.00	81.79	70.00-130.00	0.300U	11.15	15.00
Methyl Parathion	2.07	ug/L	4.00	51.75	80.00-120.00	0.500U	1.45	20.00
Phorate	2.46	ug/L	4.00	61.49	70.00-130.00	0.500U	1.95	15.00
Surr:CI-NBTF	3.87	ug/L	4.00	96.72	70.00-130.00	1.00U	18.13	15.00
	32.6	ug/L	32.0	101.72	70.00-130.00		21.47	15.00

Quality Control Batch: 10240633 Analyst: EVB

Blank	Result	Units



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Quality Control Batch: 10240633

Analyst: EVB

Blank	Result	Units
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.00100U	mg/L
Chromium	0.00100U	mg/L
Cobalt	0.00100U	mg/L
Copper	0.00100U	mg/L
Lead	0.00100U	mg/L
Nickel	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L
Thallium	0.00100U	mg/L
Tin	0.00500U	mg/L
Vanadium	0.00100U	mg/L
Zinc	0.0100U	mg/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
0.210	mg/L	0.200	105.09	76.70-120.39
0.207	mg/L	0.200	103.28	81.09-119.32
0.192	mg/L	0.200	95.78	84.59-125.11
0.214	mg/L	0.200	107.05	85.69-132.22
0.207	mg/L	0.200	103.61	84.66-121.81
0.210	mg/L	0.200	105.01	87.00-122.96
0.206	mg/L	0.200	102.81	78.66-126.98
0.214	mg/L	0.200	107.06	84.08-122.69
0.203	mg/L	0.200	101.68	86.91-124.18
0.211	mg/L	0.200	105.66	77.31-126.31
0.201	mg/L	0.200	100.30	75.98-121.42



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Quality Control Batch: 10240633 Analyst: EVB

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
0.202	mg/L	0.200	101.01	79.76-119.92
0.206	mg/L	0.200	102.76	80.95-125.84
0.203	mg/L	0.200	101.27	74.22-128.88
0.205	mg/L	0.200	102.28	78.51-125.51
0.220	mg/L	0.200	110.22	79.82-122.80

Matrix Spike

Result	Units	Spike	%REC	%REC Lim	Sample
0.0984	mg/L	0.100	98.42	73.48-142.27	0.00200U
0.122	mg/L	0.100	122.37	73.05-140.45	0.00100U
0.102	mg/L	0.100	98.47	70.68-156.87	0.00338
0.0774	mg/L	0.100	77.38	89.27-154.67	0.000500U
0.108	mg/L	0.100	107.84	76.87-137.80	0.00100U
0.108	mg/L	0.100	107.50	67.91-144.29	0.00100U
0.104	mg/L	0.100	103.56	68.92-150.01	0.00100U
0.102	mg/L	0.100	102.26	57.64-148.77	0.00100U
0.0906	mg/L	0.100	90.55	69.09-150.83	0.00100U
0.104	mg/L	0.100	103.57	58.01-145.27	0.00100U
0.103	mg/L	0.100	102.86	63.72-144.34	0.00200U
0.0890	mg/L	0.100	88.98	48.94-146.79	0.000500U
0.0937	mg/L	0.100	93.74	68.93-151.79	0.00100U
0.0926	mg/L	0.100	92.59	70.18-138.70	0.00500U
0.109	mg/L	0.100	108.88	72.08-149.74	0.00100U
2.31	mg/L	0.100	237.80	51.79-149.89	2.07

Matrix Spike Duplicate

Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
0.0974	mg/L	0.100	97.40	73.48-142.27	0.00200U	1.04	23.91
0.122	mg/L	0.100	121.69	73.05-140.45	0.00100U	0.56	26.42
0.0949	mg/L	0.100	91.48	70.68-156.87	0.00338	7.11	20.91
0.0723	mg/L	0.100	72.34	89.27-154.67	0.000500U	6.73	22.45



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Quality Control Batch: 10240633

Analyst: EVB

Matrix Spike Duplicate

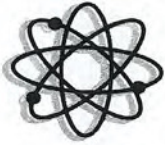
	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Cadmium	0.101	mg/L	0.100	100.96	76.87-137.80	0.00100U	6.59	24.42
Chromium	0.0974	mg/L	0.100	97.41	67.91-144.29	0.00100U	9.85	26.93
Cobalt	0.0956	mg/L	0.100	95.59	68.92-150.01	0.00100U	8.00	20.94
Copper	0.0933	mg/L	0.100	93.32	57.64-148.77	0.00100U	9.14	26.04
Lead	0.0809	mg/L	0.100	80.90	69.09-150.83	0.00100U	11.26	26.35
Nickel	0.0962	mg/L	0.100	96.16	58.01-145.27	0.00100U	7.42	25.87
Selenium	0.103	mg/L	0.100	102.54	63.72-144.34	0.00200U	0.31	23.19
Silver	0.0848	mg/L	0.100	84.80	48.94-146.79	0.000500U	4.81	25.78
Thallium	0.0883	mg/L	0.100	88.28	68.93-151.79	0.00100U	6.00	22.45
Tin	0.0971	mg/L	0.100	97.06	70.18-138.70	0.00500U	4.71	23.15
Vanadium	0.0982	mg/L	0.100	98.17	72.08-149.74	0.00100U	10.35	21.04
Zinc	2.25	mg/L	0.100	177.66	51.79-149.89	2.07	2.64	25.51

Quality Control Batch: 10240640

Analyst: TRB

Blank

	Result	Units
Total Sulfide	0.100U	mg/L



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Narrative Report

Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments

Chain of Custody
Field Data

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Check Box That Applies To Your Location

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Client: **ATKINS - TAMPA** Project Name: **HARDEE COUNTY LANDFILL**
 Address: P.O. # _____ FAX: _____
 E-MAIL: _____

Requested Due Date: _____ OR _____
 Rush Charges May Apply

Sampled By (PRINT): **RAYMUNDO CASTRO** Date Sampled: **12/27/13**
 Sampler Signature: *Raymundo Castro*

GW - ground water DW - drinking water WW - wastewater
 SW - surface water SO - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	ANALYSES REQUEST	COMMENTS	Total # Containers
1	MH-9	12/27/13	9:48	GW	224461GWI		QUICK LIST SEE ATTACHED LEACHATE 26.0	
2								
3								
4								
5								
6								
7								
8								
9								
10								

Relinquished By / Affiliation: _____ Date: _____ Time: _____
 Accepted By / Affiliation: *Raymundo Castro* Date: *12/27/13* Time: *12:36*
 Date: *12/27/13* Time: *13:40*

FINANCE CHARGES APPLIED TO PAST DUE INVOICES