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June 21, 2018

Mr. Steve Tafuni
Southwest District Office
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Re: **Review of Semi-Annual Sampling Results**
First Half 2018 Sampling Event
Hardee County Landfill
WACS Facility ID No. SWD/25/40612
Permit No. 38414-016-SO/01

Dear Mr. Tafuni:

On behalf of the Hardee County Solid Waste Department, Atkins presents this review of the results of the first half of 2018 sampling event for the facility referenced above. This document is designed to comply with the requirements of Appendix 3-Water Quality Monitoring Plan, included with the facility's operation 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. In November 2013, the County received a construction permit (38414-015-SC/01) for Phase II Section II Construction. Phase II Section II is located along the west side of the current waste placement area. Also in November 2013, the County received an operation permit associated with the Phase II Sections I & II operation. In 2014, the County completed construction of the waste cell for Phase II Section II. This required abandonment of two existing monitoring wells, abandonment of multiple piezometers, and installation of two new monitoring wells. According to the facility's operating permit (38414-016-SO/01), the water quality monitoring network is designed to monitor the groundwater in the surficial aquifer and the surface water.

The groundwater monitoring network includes eight monitoring wells, which are designated MW-1, MW-2, MW-4, MW-10R, MW-11, MW-12R, MW-13, and MW-14. The facility's permit designates MW-1 and MW-4 as background wells and the other wells as detection wells. Item 3 of Appendix 3-Water Quality Monitoring Plan lists the monitoring wells and piezometers applicable to the facility's current operation permit.

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There are two other monitoring wells, MW-6 and MW-7, which are designated by the permit as piezometers, along with 12 other piezometers. Please note that the following former piezometers have been abandoned and are no longer included in the operating permit: PZ-1, PZ-2, PZ-3, PZ-4, PZ-5, PZ-6, PZ-9, PZ-10, PZ-15, and PZ-16. The layout of the site is presented in **Figure 1**.

Item 4 of Appendix 3-Water Quality Monitoring Plan of the facility's operation permit specifies that groundwater samples shall be collected from the monitoring wells on a semi-annual 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 Item 4 of Appendix 3 of the facility's operation permit.

Item 8 of Appendix 3-Water Quality Monitoring Plan of the facility's operation 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 semi-annual sampling events during the year if sufficient water is present.

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

FIRST HALF 2018 SAMPLING EVENT

The first half of 2018 sampling event was conducted on May 22 and 23, 2018. Groundwater samples and one surface water sample were collected during this event. The groundwater and surface water 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 Water Quality Monitoring Certification form for the sampling event is provided in **Attachment A**.

Sample Collection Methodology

Prior to sampling the monitoring wells, each well 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.**

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

FIRST HALF 2018 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 groundwater also appeared to be flowing to the southeast, toward a wetland area east of the landfill. The water table gradient measured approximately 0.0025 feet per foot beneath the site (as measured between well MW-1 and well MW-10R). Water level elevation measurements were also performed at two staff gauges located in ponds on the site (SG-1 and SG-2). Water level elevations were approximately two to three feet higher at most locations than in December 2017, which reflected the recent heavy rains at the site in the two weeks prior to the water level measurements.

Sampling Results

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

Groundwater Analytical Results

There were numerous inorganic analytes detected in the groundwater samples collected and analyzed during this sampling event. No volatile organic compounds were detected in any of the groundwater samples. The inorganic analyte detections included all of those which are typically part of the analytical program except antimony, beryllium, cadmium, cobalt, mercury, 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 FAC. Not every parameter has an MCL or SDWS. There were three analytes detected at concentrations that did not comply with their standards – pH, iron, and arsenic. Iron and pH have SDWS criteria, while the criteria for arsenic is provided as an MCL in Chapter 62-550 of the FAC. A description of the detection patterns with these three analytes is described below.

- pH - The standard for pH is any value within the range of 6.5 to 8.5 Standard Units (SU). The pH values at five of the eight wells were less than 6.5 SU, and the pH measured as low

as 4.55 SU at well MW-1. The pH values at wells MW-2, MW-12R, and MW-13 were within the standard range. The pH values at both of the background wells, MW-1 (with a pH of 4.55 SU) and MW-4 (with a pH of 5.96 SU), were lower than the standard range.

- Iron - The standard for iron is 0.3 milligrams per liter (mg/L). The iron concentrations in the samples collected at four of the eight monitoring wells exceeded the standard. The iron concentrations were less than the standard at MW-11, MW-12R, MW-13, and MW-14. The iron concentrations at both of the background wells (MW-1 and MW-4) were well above the standard. The highest iron concentration detected during May 2018 was 21.3 mg/L (at MW-10R).

- Arsenic – Monitoring at this site has been closely tracking arsenic concentrations in MW-4. The standard for arsenic is 0.01 mg/L. For the past multiple sampling events, the arsenic concentration in MW-4 has slightly exceeded that standard, and that trend continued during this sampling event. The arsenic concentration in MW-4 during May 2018 was 0.0136 mg/L, which compares closely with the December 2017 arsenic concentration (0.0111 mg/L) and with the May 2017 arsenic concentration (0.0150 mg/L). MW-4 is designated as a background well.

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

Surface Water Analytical Results

The concentration of every analyte that was detected in the surface water sample was compared to the State surface water quality standards (if a standard existed for that analyte). The surface water standards are promulgated by Chapter 62-302, FAC. A summary of the surface water analytical results is presented in **Table 3,** and the laboratory analytical report is provided in **Attachment C**. There were several inorganic analytes detected in the surface water sample (SW-2). Two volatile organic compounds, 2-Butanone (MEK) and toluene, were detected in the surface water sample. Both volatile organic compounds were detected at concentrations significantly less than their surface water quality standards.

The only parameter that was detected in excess of its standard was fecal coliform. Fecal coliform was detected at a concentration of 2,690 most probable number of fecal coliforms per 100 ml (mpn/100 ml), which exceeds the standard of 800 mpn/100 ml. It should be noted that the surface water sampling location (SW-2) is downstream of a wetland area utilized by vultures and wild pigs. There was recent heavy rainfall at the site in the two weeks prior to sampling. The site previously had not had issues with elevated fecal coliform concentrations, so this parameter will be tracked in future sampling events.

The Dissolved Oxygen field measurement was not in compliance with the surface water criteria. Dissolved Oxygen was measured at a concentration of 1.47 mg/L, which is less than the criteria of greater than 5 mg/L. The Dissolved Oxygen reading was consistent with previous results measured at this location.

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SUMMARY AND CONLUSIONS

The results of the first half of 2018 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 surface water. There were three analytes detected in the groundwater that did not comply with their regulatory standards: arsenic, pH, and iron were detected in the groundwater at concentrations in excess of their regulatory criteria. It should be noted that the primary parameters that were not in compliance with their standards in the groundwater (pH and iron) were also not in compliance with their standards in both of the background monitoring wells. The arsenic exceedance occurred only in one of the background monitoring wells (MW-4).

Elevated fecal coliform concentrations were detected in the surface water sample (SW-2). This result was attributed to the combination of heavy rainfall and wildlife activity in the wetlands upstream of the sampling location in the days prior to sampling. The fecal coliform concentrations will be tracked in future surface water sampling events.

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. If you have any questions regarding the information presented in this report, please call me at (813) 281-8377.

Sincerely,

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

CC: Ken Wheeler, Engineer, Hardee County Public Works (2 copies)
Tony Perry, Landfill Operations, Hardee County Solid Waste Management Department, 685 Airport Road, Wauchula, FL 33873
File 100058586

TABLES

Table 1
Groundwater Elevation Data
Hardee County Landfill
First Half 2018

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	3.91	84.06
MW-2	85.86	83.75	10.50	4	3.18	82.68
MW-4	87.16	84.09	18.90	2	4.59	82.57
MW-10R	88.56	85.49	15.12	2	7.85	80.71
MW-11	88.11	85.17	13.90	2	7.55	80.56
MW-12R	89.00	85.71	23.25	2	5.75	83.25
MW-13	88.88	NM	23.00	2	4.75	84.13
MW-14	88.16	NM	23.00	2	4.22	83.94
Piezometers						
MW-6	88.25	85.06	NA	2	6.46	81.79
MW-7	87.88	84.98	NA	2	5.78	82.10
P-7	84.47	82.41	NA	2	3.32*	81.15
P-8	85.32	83.25	NA	2	5.11	80.21
P-11	88.69	86.16	NA	2	6.51	82.18
P-13	87.96	87.98	NA	2	5.66	82.30
P-14	87.31	84.05	NA	2	5.89	81.42
P-17	88.82	85.88	NA	2	3.65	85.17
P-18	88.74	84.37	NA	2	4.47	84.27
P-19	86.73	84.14	NA	2	2.20	84.53
P-20	87.6	84.68	NA	2	4.12	83.48
P-21	86.63	83.57	NA	2	4.59	82.04
P-22	87.04	84.09	NA	2	4.50	82.54
P-23	86.45	83.71	NA	2	4.37	82.08
Staff Gauges						
SG-1	80.51#	NA	NA	NA	+2.9***	83.41
SG-2	78.57#	NA	NA	NA	+4.3***	82.87

NM = Not measured NA = Not applicable or available

* = casing cut off # = lag bolt/zero elevation ** = dry or plugged, no data (ND)

*** = bottom of gauge obscured by vegetation, elevation estimated

Table 2
Groundwater Analytical Summary
Hardee County Landfill
First Half 2018

Analyte	Monitoring Well:		MW-1	MW-2	MW-4	MW-10R	MW-11	MW-12R	MW-13	MW-14
	Sample Date:		5/22/2018	5/22/2018	5/22/2018	5/23/2018	5/23/2018	5/22/2018	5/22/2018	5/22/2018
	Standard[1]	Units								
Field Measurements										
Groundwater Elevation		ft	84.06	82.68	82.57	80.71	80.56	83.25	84.13	83.94
Temperature		deg. C	23.90	23.95	22.38	26.01	24.54	25.46	24.29	24.88
pH	6.5-8.5	STD	**4.55**	6.55	**5.96**	**6.25**	**4.98**	6.84	6.52	**6.34**
Conductivity		uS/cm	186	718	354	1083	112	308	379	499
Dissolved Oxygen (DO)		mg/l	0.52	0.72	1.84	1.90	1.89	1.84	1.91	1.70
Turbidity		NTU	19.7	4.36	2.68	6.42	17.0	0.84	1.69	3.79
Inorganics (Appendix I parameters only)										
Nitrate (as N)	10	mg/l	0.0287	0.0108 I	0.0233	0.0572	0.0456	0.559	4.99	2.06
TDS	500	mg/l	94.0	258	180	328	124	90.0	124	178
Chloride	250	mg/l	18.3	13.4	15.6	83.8	7.88 I	4.49 I	5.09 I	7.50 I
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	0.00100 U	0.00100 U	**0.0136**	0.00640	0.00100 U	0.00100 U	0.00100 U	0.00100 U
Barium	2	mg/l	0.0133	0.0447	0.0199	0.0218	0.0253	0.00990	0.00940	0.0123
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	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U	0.000200 U
Chromium	0.1	mg/l	0.0170	0.00180 I	0.00800	0.00260	0.00410	0.00140 I	0.00170 I	0.00190 I
Cobalt	0.14	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	0.00130 I	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00110 I	0.00260	0.00180 I
Lead	0.015	mg/l	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.00130 I	0.00100 U	0.00100 U	0.00100 U
Mercury	0.002	mg/l	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U	0.0000200 U
Nickel	0.1	mg/l	0.0030	0.0022	0.0023	0.00560	0.00130 I	0.00130 I	0.00170 I	0.00120 I
Selenium	0.05	mg/l	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00200 U	0.00360 I	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	0.049	mg/l	0.0168	0.0316	0.0190	0.00310	0.0108	0.00930	0.00300	0.00840
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	0.0349	0.0100 U	0.245	1.60	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Iron	0.3	mg/l	**2.97**	**2.11**	**8.73**	**21.3**	0.188	0.0210	0.0897	0.0358
Sodium	160	mg/l	11.8	17.6	8.59	55.2	5.36	3.86	4.47	5.94
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	0.500 U	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	0.500 U	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	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.00 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	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 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
1,2,3 - Trichloropropane		ug/l	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
1,2 - Dibromoethane (EDB)		ug/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
1,2 - dibromo-3-chloropropane		ug/l	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 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

Table 3
Surface Water Analytical Summary
Hardee County Landfill
First Half 2018

Analyte		Location:	SW-2
		Sample Identifier:	SW-2
		Date of Test:	5/23/2018
	Standard(1)	Units	
Field Measurements			
Temperature		deg. C	24.89
pH	6-8.5	STD	7.01
Conductivity	1275	uS/cm	385
Dissolved Oxygen (DO)	>5	mg/l	**1.47**
Turbidity	29+	NTU	7.87
Inorganics			
Nitrate (as N)		mg/l	0.0100 U
Nitrite (as N)		mg/l	0.0200 U
Total Dissolved Solids (TDS)		mg/l	272
Aluminum	1.5	mg/l	0.0309
Ammonia (as N)		mg/l	0.0587
Antimony	4.3	mg/l	0.00200 U
Arsenic	0.05	mg/l	0.00100 U
Barium		mg/l	0.0159
Beryllium	0.00013	mg/l	0.000500 U
Cadmium	Note 2	mg/l	0.000200 U
Chromium	Note 3	mg/l	0.00120 I
Cobalt		mg/l	0.00100 U
Copper	Note 4	mg/l	0.00100 U
Iron	1	mg/l	0.650
Lead	Note 5	mg/l	0.00100 U
Mercury	0.000012	mg/l	0.0000200 U
Nickel	Note 6	mg/l	0.00100 U
Selenium	5	mg/l	0.00200 U
Silver	0.00007	mg/l	0.000500 U
Thallium	0.0063	mg/l	0.00100 U
Vanadium	0.049	mg/l	0.00100 U
Zinc	Note 7	mg/l	0.0100 U
Fecal coliform	800	mpn/100ml	**2,690**
Total Hardness (as CaCO3)		mg/l	147
Total Organic Carbon (TOC)		mg/l	21.0
Total Nitrogen		mg/l	1.45
Total Phosphorus		mg/l	1.02
Total Suspended Solids (TSS)		mg/l	4.75
Un-ionized Ammonia	0.02	mg/l	0.000323
Biological Oxygen Demand (BOD)		mg/l	3.30
Chemical Oxygen Demand (COD)		mg/l	57.8
Chlorophyll A		ug/l	14.6
Total Kheldahl Nitrogen (TKN) (as N)		mg/l	1.45
Organics			
1,1,1,2-Tetrachloroethane		ug/l	0.500 U
1,1,1-Trichloroethane	270	ug/l	0.500 U
1,1,2,2-Tetrachloroethane	10.8	ug/l	0.100 U
1,1,2-Trichloroethane	16	ug/l	0.500 U
1,1-Dichloroethane		ug/l	0.500 U
1,1-Dichloroethene	3.2	ug/l	0.500 U
1,2-Dichloroethane	37	ug/l	0.500 U
1,2-Dichloropropane	14	ug/l	0.200 U

Analyte		Location:	SW-2
		Sample Identifier:	SW-2
		Date of Test:	5/23/2018
	Standard(1)	Units	
1,2,3-Trichloropropane	0.2	ug/l	0.0200 U
1,2-Dibromoethane (EDB)	13	ug/l	0.0100 U
1,2-Dibromo-3-chloropropane		ug/l	0.0200 U
2-Butanone (MEK)	120000	ug/l	1.60
2-Hexanone		ug/l	0.500 U
Acetone	1700	ug/l	5.00 U
Acrylonitrile	0.2	ug/l	0.300 U
Benzene	71.28	ug/l	0.500 U
Bromochloromethane		ug/l	0.100 U
Bromodichloromethane	49.7	ug/l	0.100 U
Bromoform		ug/l	0.500 U
Bromomethane	35	ug/l	0.500 U
Carbon disulfide	110	ug/l	1.00 U
Carbon tetrachloride	4.42	ug/l	0.500 U
Chlorobenzene	17	ug/l	0.500 U
Chloroethane		ug/l	0.500 U
Chloroform		ug/l	0.500 U
Chloromethane	470.8	ug/l	0.500 U
Dibromochloromethane		ug/l	0.400 U
Dibromomethane	1580	ug/l	0.500 U
Ethylbenzene	610	ug/l	0.500 U
Methyl iodide		ug/l	1.00 U
Methyl isobutyl ketone		ug/l	1.00 U
Methylene chloride		ug/l	1.00 U
Para-dichlorobenzene		ug/l	0.500 U
Styrene	460	ug/l	0.500 U
Tetrachloroethene	8.85	ug/l	0.500 U
Toluene	480	ug/l	0.510 I
Trichloroethene	80.7	ug/l	0.500 U
Trichlorofluoromethane		ug/l	0.500 U
Vinyl Acetate	700	ug/l	10.0 U
Vinyl chloride	2.4	ug/l	0.500 U
Xylenes	370	ug/l	0.500 U
cis-1,2-Dichloroethene	3.2	ug/l	0.200 U
cis-1,3-Dichloropropene	12	ug/l	0.500 U
o-Dichlorobenzene		ug/l	0.500 U
trans-1,2-Dichloroethene	11000	ug/l	0.500 U
trans-1,3,-Dichloropropene	12	ug/l	0.500 U
trans-1,4-Dichloro-2-butene		ug/l	1.00 U

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nepholometric turbidity units; mpn/100ml = most probable number (of bacteria colonies) per 100 ml. U = less than method detection limit (MDL) I = betweem MDL and practical quantitation limit

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level. Value of hardness is used to determine calculated standards below.

(2) Cd less than or equal to e(0.7852(InH)-3.49)

(3) Cr less than or equal to e(0.819(InH)+0.6848)

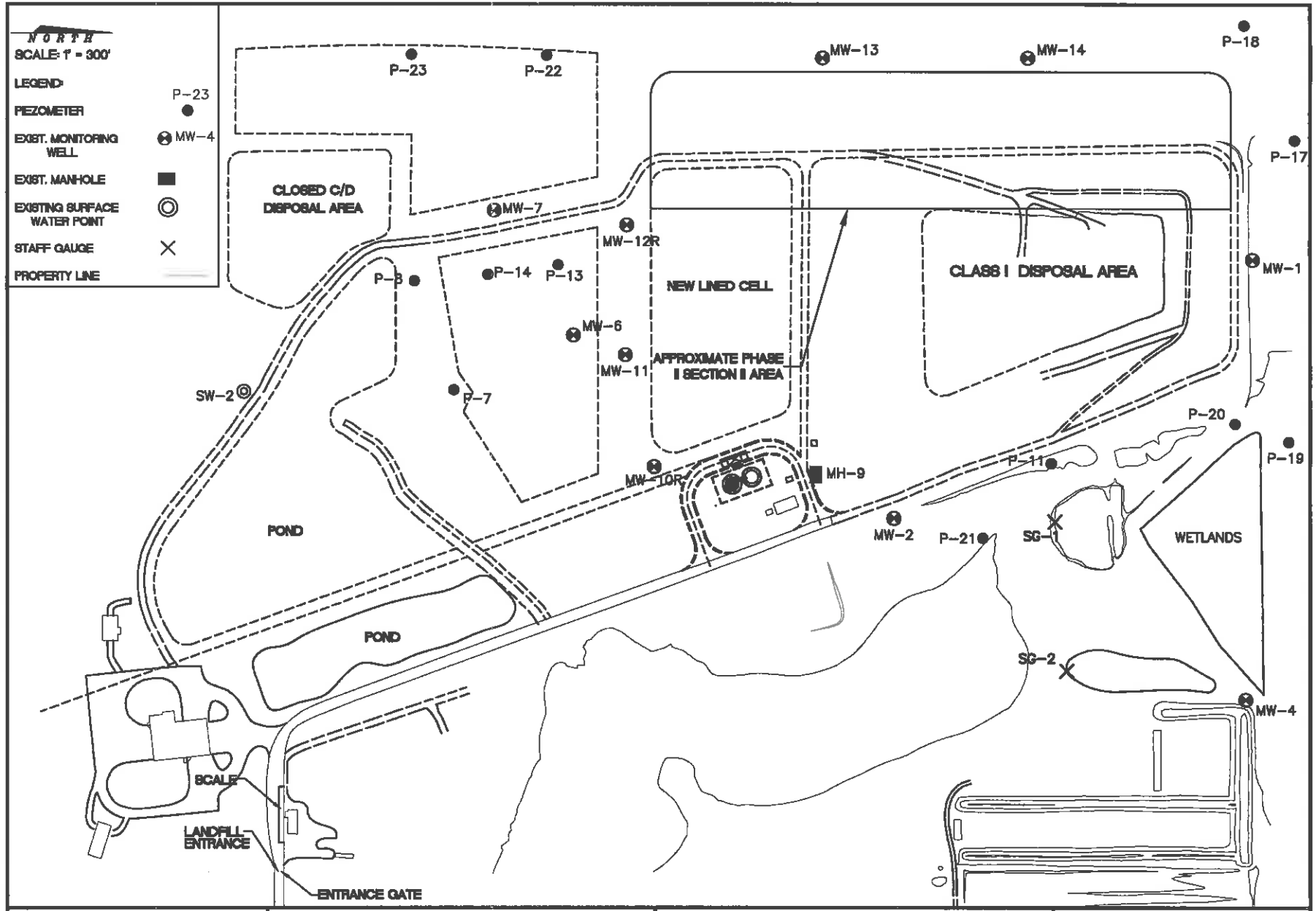
(4) Cu less than or equal to e(0845(InH)-1.702)

(5) Pb less than or equal to e(1.273(InH)-4.705)

(6) Ni less than or equal to e(0.846(InH)+0.0584)

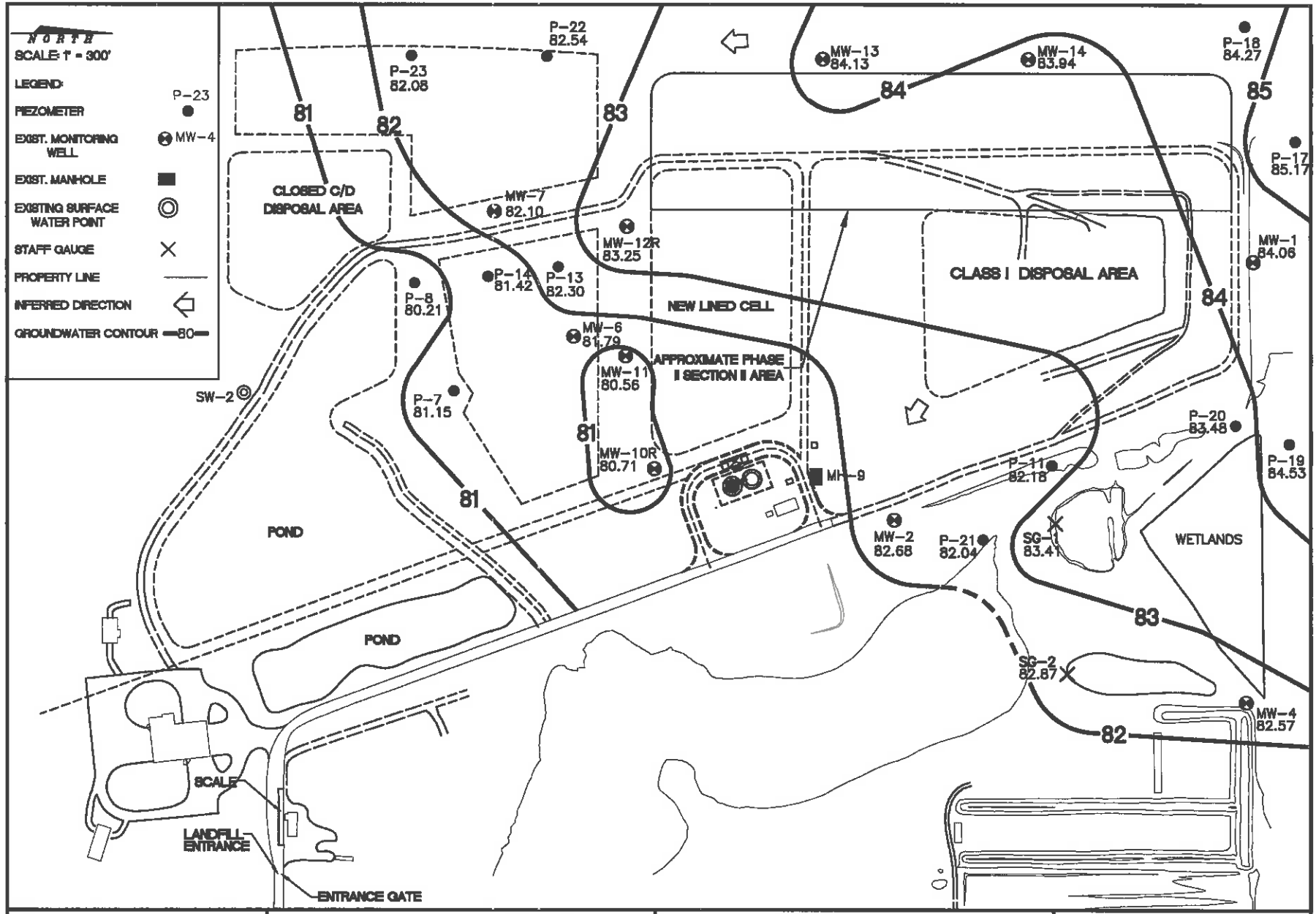
(7) Zn less than or equal to e(0.8473(InH)+0.884)

FIGURES



F:\COMMON\BRAD BAYNE\Hardee County Landfill\December 2015\FIG-1_MONITORING POINTS-12.15.dwg Jan 11, 2016 - 8:08am

ATKINS	HARDEE COUNTY LANDFILL	MONITORING POINTS	FIGURE 1



ATKINS

HARDEE COUNTY LANDFILL

WATER TABLE ELEVATION CONTOUR MAP FIRST HALF 2018

FIGURE 2

F:\COMMON\BRAD BAYNE\Hardee County Landfill\June 2018 Figure\FIG-1_MONITORING POINTS- JuneHALF 2018.dwg Jun 05, 2018 - 7:23am

ATTACHMENT A

Ground Water Monitoring Report Form

Florida Department of Environmental Protection

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

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

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

(1) Facility Name Hardee County Solid Waste Disposal Facility
Address 685 Airport Road
City Wauchula, FL Zip 33873 County Hardee
Telephone Number (863) 773-5089
(2) WACS Facility ID SWD-25-40612
(3) DEP Permit Number 38414-016-SO-01
(4) Authorized Representative's Name Bradley J. Bayne, P.G. Title Senior Geologist
Address Atkins North America, 4030 West Boy Scout Boulevard, Suite 700
City Tampa, FL Zip 33607 County Hillsborough
Telephone Number (813) 281-8377
Email address (if available) bradley.bayne@atkinsglobal.com

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

June 21, 2018
(Date)

Bradley J. Bayne
(Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Atkins North America (see above information)
Analytical Lab NELAC / HRS Certification # NELAC # E83018
Lab Name Flowers Chemical Laboratories, Inc.
Address 481 Newburyport Avenue, Altamonte Springs, FL 32715
Phone Number (407) 339-5984
Email address (if available) june@flowerslabs.com (June Flowers)

ATTACHMENT B

Groundwater Sampling Logs and Field Equipment Calibration Logs

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill	SITE LOCATION: 685 Airport Rd., Wauchula
WELL NO: MW-1	SAMPLE ID: MW-1
DATE: 5/22/18	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 3.91	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 – 3.91 feet) X 0.65 gallons/foot = 5.71 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): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 10:45	PURGING ENDED AT: 11:50	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:35	5.0	5.0	0.1	5.15	4.53	23.83	186	0.58	20.6	Brown	None
11:40	0.5	5.5	0.1	5.16	4.56	23.80	186	0.54	20.2	↓	↓
11:45	0.5	6.0	0.1	5.16	4.56	23.91	186	0.53	18.5	↓	↓
11:50	0.5	6.5	0.1	5.16	4.55	23.90	186	0.52	19.7	Clear	↓

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S): Bradley A. Bayne	SAMPLING INITIATED AT: 11:50	SAMPLING ENDED AT: 12:00
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: S+HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
			See	Chain of Custody					

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd., Wauchula
WELL NO:	MW-2	SAMPLE ID:	MW-2
		DATE:	5/22/18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	1/4		3.18	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 – 3.18 feet) X 0.65 gallons/foot = 6.19 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:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	9:25	10:30	6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:15	5.0	5.0	0.1	5.18	6.45	23.93	711	1.49	5.77	Clear	None
10:20	0.5	5.5	0.1	5.19	6.44	23.93	711	1.22	5.33	↓	↓
10:25	0.5	6.0	0.1	5.17	6.50	23.94	714	0.82	4.45		
10:30	0.5	6.5	0.1	5.17	6.55	23.95	718	0.72	4.36		

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Bayne / Atkins	Bradley D. Bayne	10:30	10:40

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7	S + HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
				See	Chain of	Custody			

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd., Wauchula
WELL NO:	MW-4	SAMPLE ID:	MW-4
DATE:	5/22/18		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet):	4.59	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 – 4.59 feet) X 0.16 gallons/foot = 2.72 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	7	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	7	PURGING INITIATED AT:	8:20	PURGING ENDED AT:	9:05	TOTAL VOLUME PURGED (gallons):	4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:50	3.0	3.0	0.1	4.79	5.92	22.38	353	2.61	4.15	Brown	None
8:55	0.5	3.5	0.1	4.78	5.86	22.38	354	2.32	2.70	Clear	↓
9:00	0.5	4.0	0.1	4.79	5.91	22.37	354	1.91	2.26	↓	↓
9:05	0.5	4.5	0.1	4.79	5.96	22.38	354	1.84	2.68	↓	↓

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S):	Bradley J. Bayne	SAMPLING INITIATED AT:	9:05	SAMPLING ENDED AT:	9:15
PUMP OR TUBING DEPTH IN WELL (feet):	7	TUBING MATERIAL CODE:	S + HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	
FIELD DECONTAMINATION: PUMP	Y (N)	TUBING	Y (N) (replaced)	DUPLICATE:	Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
			See	Chain	of	Custody			

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd., Wauchula
WELL NO:	MW-10R	SAMPLE ID:	MW-10R
DATE:	5/23/18		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	7.85	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)
= (23.02 feet – 7.85 feet) X 0.16 gallons/foot = 2.44 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:	9:35	PURGING ENDED AT:	10:15	TOTAL VOLUME PURGED (gallons):	4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:00	2.5	2.5	0.1	8.51	6.15	25.34	1116	4.06	8.75	Clear	None
10:05	0.5	3.0	0.1	8.52	6.20	26.18	1091	3.07	5.34	↓	↓
10:10	0.5	3.5	0.1	8.52	6.21	26.05	1086	2.91	5.36		
10:15	0.5	4.0	0.1	8.52	6.25	26.01	1083	1.90	6.42		

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Brad Bayne/Atkins	SAMPLER(S) SIGNATURE(S):	Bradley J. Bayne	SAMPLING INITIATED AT:	10:15	SAMPLING ENDED AT:	10:25
PUMP OR TUBING DEPTH IN WELL (feet):	11	TUBING MATERIAL CODE:	5 + HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
			See Chain of Custody						

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill	SITE LOCATION: 685 Airport Rd, Wauchula
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 5/23/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.55	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 – 7.55 feet) X 0.16 gallons/foot = 1.02 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 8:35	PURGING ENDED AT: 9:15	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:00	2.5	2.5	0.1	7.72	4.97	24.58	112	2.51	25.1	Clear	None
9:05	0.5	3.0	0.1	7.73	4.93	24.56	112	2.05	22.2	↓	↓
9:10	0.5	3.5	0.1	7.73	4.94	24.55	112	1.99	17.4	↓	↓
9:15	0.5	4.0	0.1	7.73	4.98	24.54	112	1.89	17.0	↓	↓

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 8:35	SAMPLING ENDED AT: 9:15
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: S+HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
			See	Chain of Custody					

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd, Wauchula
WELL NO:	MW-12R	SAMPLE ID:	MW-12R
DATE:	5/22/18		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	5.75	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 – 5.75 feet) X 0.16 gallons/foot = 2.77 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):	9	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	9	PURGING INITIATED AT:	14:15	PURGING ENDED AT:	15:00	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)
14:45	3.0	3.0	0.1	6.38	6.85	25.47	309	3.13	1.04	Clear	None
14:50	0.5	3.5	0.1	6.39	6.84	25.45	309	2.51	0.64	↓	↓
14:55	0.5	4.0	0.1	6.38	6.84	25.45	308	2.01	0.58		
15:00	0.5	4.5	0.1	6.38	6.84	25.46	308	1.84	0.84		

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	Brad Baynel / Atkins	SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT:	15:10	SAMPLING ENDED AT:	15:10
PUMP OR TUBING DEPTH IN WELL (feet):	9	TUBING MATERIAL CODE:	S+HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: ____ µm	

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet Ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
				See Chain of Custody					

REMARKS:

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

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

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Land Fill	SITE LOCATION: 685 Airport Rd, Wauchula	
WELL NO: MW-13	SAMPLE ID: MW-13	DATE: 5/22/18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.75	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)
= (20.79 feet – 4.75 feet) X 0.16 gallons/foot = 2.57 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: 13:15	PURGING ENDED AT: 14:00	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:45	3.0	3.0	0.1	5.02	6.55	24.35	390	2.60	2.50	Clear	None
13:50	0.5	3.5	0.1	5.03	6.53	24.35	385	2.36	2.49	↓	↓
13:55	0.5	4.0	0.1	5.03	6.53	24.33	380	2.19	1.98		
14:00	0.5	4.5	0.1	5.02	6.52	24.29	379	1.91	1.69	↓	↓

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 14:00	SAMPLING ENDED AT: 14:10
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: S+HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
			See	Chain of Custody					

REMARKS:

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

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd, Wauchula
WELL NO:	MW-14	SAMPLE ID:	MW-14
DATE:	5/22/18		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	1/4		4.22	Peristaltic

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.35 feet − 4.22 feet) X 0.16 gallons/foot = 2.58 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:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	12:15	13:00	4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:45	3.0	3.0	0.1	4.38	6.35	24.95	506	1.96	3.58	Tan	None
12:50	0.5	3.5	0.1	4.39	6.32	24.87	497	1.76	2.93	↓	
12:55	0.5	4.0	0.1	4.39	6.33	24.89	499	1.68	3.29	Clear	
13:00	0.5	4.5	0.1	4.39	6.34	24.88	499	1.70	3.79	↓	↓

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brad Bayne / Atkins	Brad J Bayne	13:00	13:10

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7	S+HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
				See Chain of Custody					

REMARKS:

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

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

NOTES: 1. **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill	SITE LOCATION: 685 Airport Rd, Wauchula	
WELL NO: SW-2	SAMPLE ID: SW-2	DATE: 5/23/18

PURGING DATA

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 10:45	PURGING ENDED AT: 11:00	TOTAL VOLUME PURGED (gallons): 2.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:50	1.0	1.0	0.2	—	6.91	24.82	385	1.62	8.31	Clear	None
10:55	0.5	1.5	0.1	—	7.00	24.89	385	1.51	8.26	↓	↓
11:00	0.5	2.0	0.1	—	7.01	24.89	385	1.47	7.87	↓	↓

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

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S): Bradley J. Bayne	SAMPLING INITIATED AT: 11:00	SAMPLING ENDED AT: 11:30
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: S+HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
			See	Chain	of	Custody			

REMARKS:

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

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

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

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

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

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 06AZ173AA

PARAMETER: *[check only one]* Rented from Peterson Environmental

☐ 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 4.01 Provided by Peterson Environmental

Standard B 7.00

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
5/22/18	8:05	A	4.01	4.01	0%	Yes	Init.	BB
5/22/18	8:06	B	7.00	6.99	<1%	Yes	Init.	BB
5/23/18	8:11	A	4.01	4.00	<1%	Yes	Init.	BB
5/23/18	8:12	B	7.00	7.00	0%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 06A2173AA

PARAMETER: *[check only one]* Rented from Peterson Environmental

☐ 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 1,000 uS (provided by Peterson Environmental)

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
5/22/18	8:08	A	1,000	1,003	<1%	Yes	Init.	BB
5/23/18	8:14	A	1,000	1,001	<1%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 **INSTRUMENT #** 06A2173AA

PARAMETER: *[check only one]* Rented from Peterson Environmental

☐ 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% (8.56 mg/L)

Standard B provided by Peterson Environmental

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
5/22/18	8:10	A	8.56	8.56	0%	Yes	Init.	BB
5/23/18	8:16	A	8.56	8.56	0%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Hach 2100 Q **INSTRUMENT #** 13110C029044

PARAMETER: *[check only one]* Rented from Peterson Environmental

☐ 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 10 NTU provided by Peterson Environmental

Standard B 20 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
5/22/18	8:13	A	10	9.6	<1%	Yes	Init.	BB
5/22/18	8:14	B	20	19.7	<1%	Yes	Init.	BB
5/23/18	8:18	A	10	9.8	<1%	Yes	Init.	BB
5/23/18	8:19	B	20	19.9	<1%	Yes	Init.	BB

ATTACHMENT C

Groundwater and Surface Water Laboratory Analytical Reports

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597 Phone: 407-339-5984 E83018 (Main Lab)
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986 Phone: 772-343-8006 E86562 (South Lab)
812 SW Harvey Green Dr, Madison, FL 32340 Phone: 850-973-6878 E82405 (North Lab)
3980 Overseas Hwy, Suite 103, Marathon, FL 33050 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Report Summary

Date Received: May 23, 2018 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
366683GW1	MW-4/299	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW2	MW-2/297	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW3	MW-1/296	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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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		FT1600	RJC	Main Lab	
		SM2540 C	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW4	MW-14/29064	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW5	MW-13/29063	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW6	MW-12R/22931	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	

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		SM4500-Cl E	TGL	Main Lab	
366683GW7	MW-11/21882	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW8	MW-10R/22930	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	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	BNP	Main Lab	
		SM4500-Cl E	TGL	Main Lab	
366683GW9	Trip Blank	EPA8260	CTH	Main Lab	Ground Water

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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Date Sampled: May 22, 2018
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Analysis Report

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	0.0233	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18	
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18	
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18	
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18	
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18	
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18	
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18	
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18	
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18	
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18	
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18	
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18	
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18	
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18	
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18	
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18	
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18	

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PO #: 1003580
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Date Sampled: May 22, 2018
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	139.40%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	91.47%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	104.87%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	82.6	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	5.96	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	354	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	22.4	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	1.84	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	2.68	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	180	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18

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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	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	8.73	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	8.59	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.0136	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.0199	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00800	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00230	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.0190	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	15.6	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	0.245	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

Lab #: 366683GW2 Sampled: 05/22/18 10:30 AM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	0.0108 I	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	

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

PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl Isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18

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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	138.73%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	90.20%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	107.00%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	82.7	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	6.55	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	718	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	24.0	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	0.720	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	4.36	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	258	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	2.11	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	17.6	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18

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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Barium	0.0447	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00180 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00220	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.0316	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	13.4	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	0.0287	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	

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2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl Isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18

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PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	135.57%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	90.50%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	102.57%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	84.1	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	4.55	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	186	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	23.9	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	0.520	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	19.7	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	94.0	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	2.97	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	11.8	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.0133	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.0170	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00130 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18

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Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00300	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.0168	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	18.3	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	0.0349	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

Lab #: 366683GW4 Sampled: 05/22/18 01:00 PM Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	2.06	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18	
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18	
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18	
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18	
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18	
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18	

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Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18

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Surr:1,2-Dichloroethane-d4 (50-170%)	137.57%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	92.20%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	104.83%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	83.9	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	6.34	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	499	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	24.9	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	1.70	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	3.79	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	178	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	0.0358	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	5.94	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.0123	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00190 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00180 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00120 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.00840	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18

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Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18	
Chloride	7.50 I	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18	
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18	
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18	

Lab #: 366683GW5 Sampled: 05/22/18 02:00 PM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	4.99	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18	
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18	
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18	
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18	
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18	
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18	
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18	
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18	
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18	
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18	
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18	
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18	

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PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	136.37%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	89.97%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	105.67%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	84.1	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	6.52	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	379	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18

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PO #: 1003580
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Field Temp. (C)	24.3	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	1.91	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	1.69	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	124	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	0.0897	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	4.47	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.00940	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00170 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00260	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00170 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00360 I	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.00300	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	5.09 I	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

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Nitrate(as N)	0.559	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18	
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18	
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18	
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18	
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18	
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18	
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18	
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18	
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18	
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18	
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18	
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18	
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18	
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18	
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18	
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18	
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18	
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18	
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18	

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Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	141.80%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	89.10%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	108.33%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	83.3	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	6.84	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	308	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	25.5	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	1.84	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	0.840	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	90.0	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18

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Iron	0.0210	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	3.86	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.00990	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00140 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00110 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00130 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.00930	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	4.49 I	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

Lab #: 366683GW7 Sampled: 05/23/18 09:15 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	0.0456	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	

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

PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18

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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	141.90%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	89.30%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	109.43%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	80.6	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	4.98	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	112	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	24.5	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	1.89	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	17.0	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	124	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	0.188	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	5.36	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.0253	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18

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Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00410	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00130 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00130 I	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.0108	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	7.88 I	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	0.0572	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18	
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18	

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Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18

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o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	140.97%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	91.47%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	106.20%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Field Ground Water Elevation	80.7	ft	1.00	-10.0	-10.0	10372921	FT1000		05/23/18
Field pH (units)	6.25	pH	1.00	0.0100	0.0200	10372922	FT1100	C006	05/23/18
Field Conductivity	1080	umhos/cm	1.00	0.100	0.100	10372923	FT1200		05/23/18
Field Temp. (C)	26.0	oC	1.00	0.100	0.100	10372924	FT1400		05/23/18
Field DO	1.90	mg/L	1.00	0.100	0.100	10372925	FT1500		05/23/18
Field Turbidity	6.42	NTU	1.00	0.100	0.100	10372926	FT1600		05/23/18
TDS	328	mg/L	1.00	2.50	5.00	10372957	SM2540 C	10-33-3	05/24/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Iron	21.3	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Sodium	55.2	mg/L	1.00	0.500	1.00	10373173	EPA6010	7440-23-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373249	EPA6020	7440-36-0	05/30/18
Arsenic	0.00640	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-38-2	05/30/18
Barium	0.0218	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7440-39-3	05/30/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-41-7	05/30/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373249	EPA6020	7440-43-9	05/30/18
Chromium	0.00260	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-47-3	05/30/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-48-4	05/30/18
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-50-8	05/30/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7439-92-1	05/30/18
Nickel	0.00560	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-02-0	05/30/18

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PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Lab #: 366683GW8 Sampled: 05/23/18 10:15 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373249	EPA6020	7782-49-2	05/30/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373249	EPA6020	7440-22-4	05/30/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-28-0	05/30/18
Vanadium	0.00310	mg/L	1.00	0.00100	0.00200	10373249	EPA6020	7440-62-2	05/30/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373249	EPA6020	7440-66-6	05/30/18
Chloride	83.8	mg/L	1.00	4.00	8.00	10373438	SM4500-Cl E	16887-00-6	06/01/18
Ammonia (as N)	1.60	mg/L	1.00	0.0100	0.0200	10373576	EPA350.1	7664-41-7	06/04/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373751	EPA7470	7439-97-6	05/31/18

Lab #: 366683GW9 Sampled: 05/23/18 10:15 AM Desc: Trip Blank

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	10372826	EPA8260	630-20-6	05/24/18
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18

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Date Sampled: May 22, 2018
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl Isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	147.90%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	93.30%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	110.70%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18

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Quality Report

Quality Control Batch: 10372639	Analyst: PCW							
Blank	**Result**	**Units**						
Nitrate(as N)	0.0100U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Nitrate(as N)	1.16	mg/L	1.00	115.50	85.00-115.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Nitrate(as N)	5.64	mg/L	4.00	111.23	85.00-115.00	1.19		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Nitrate(as N)	5.63	mg/L	4.00	110.98	85.00-115.00	1.19	0.18	20.00

Blank	**Result**	**Units**
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
1,2-dichloropropane	0.200U	ug/L
2-Butanone (MEK)	0.500U	ug/L
2-Hexanone	0.500U	ug/L
Acetone	5.00U	ug/L
Acrylonitrile	0.300U	ug/L
Benzene	0.500U	ug/L
Bromochloromethane	0.100U	ug/L

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Quality Control Batch: 10372826	Analyst: CTH	
Blank	**Result**	**Units**
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
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
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	10.0U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	0.500U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
o-dichlorobenzene	0.500U	ug/L
trans-1,2-dichloroethene	0.500U	ug/L
trans-1,3,-Dichloropropene	0.500U	ug/L

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Quality Control Batch: 10372826 **Analyst: CTH**

Blank	Result	Units
trans-1,4-dichloro-2-butene	1.00U	ug/L
Surr:1,2-Dichloroethane-d4	40.5	ug/L
Surr:Bromofluorobenzene	27.9	ug/L
Surr:Toluene-d8	33.2	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
1,1,1,2-Tetrachloroethane	36.4	ug/L	40.0	90.97	50.00-170.00
1,1,1-Trichloroethane	38.3	ug/L	40.0	95.75	50.00-170.00
1,1,2,2-Tetrachloroethane	40.2	ug/L	40.0	100.57	50.00-170.00
1,1,2-Trichloroethane	35.7	ug/L	40.0	89.35	50.00-170.00
1,1-Dichloroethane	33.3	ug/L	40.0	83.22	50.00-170.00
1,1-Dichloroethene	38.2	ug/L	40.0	95.50	50.00-170.00
1,2-dichloroethane	43.9	ug/L	40.0	109.85	50.00-170.00
1,2-dichloropropane	32.5	ug/L	40.0	81.18	50.00-170.00
2-Butanone (MEK)	42.4	ug/L	40.0	106.05	50.00-170.00
2-Hexanone	43.3	ug/L	40.0	108.18	50.00-170.00
Acetone	40.2	ug/L	40.0	100.38	50.00-170.00
Acrylonitrile	37.4	ug/L	40.0	93.55	50.00-170.00
Benzene	31.7	ug/L	40.0	79.12	50.00-170.00
Bromochloromethane	39.9	ug/L	40.0	99.78	50.00-170.00
Bromodichloromethane	38.3	ug/L	40.0	95.83	50.00-170.00
Bromoform	40.6	ug/L	40.0	101.45	50.00-170.00
Bromomethane	40.5	ug/L	40.0	101.17	50.00-170.00
Carbon Disulfide	30.7	ug/L	40.0	76.70	50.00-170.00
Carbon Tetrachloride	40.0	ug/L	40.0	100.07	50.00-170.00
Chlorobenzene	34.9	ug/L	40.0	87.35	50.00-170.00
Chloroethane	32.6	ug/L	40.0	81.55	50.00-170.00
Chloroform	37.8	ug/L	40.0	94.55	50.00-170.00
Chloromethane	42.3	ug/L	40.0	105.70	50.00-170.00

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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Dibromochloromethane	38.4	ug/L	40.0	96.03	50.00-170.00
Dibromomethane	43.2	ug/L	40.0	107.90	50.00-170.00
Ethylbenzene	37.5	ug/L	40.0	93.70	50.00-170.00
Methyl Iodide	29.9	ug/L	40.0	74.78	50.00-170.00
Methyl isobutyl ketone	38.4	ug/L	40.0	95.87	50.00-170.00
Methylene chloride	37.4	ug/L	40.0	93.60	50.00-170.00
Para-dichlorobenzene	34.2	ug/L	40.0	85.60	50.00-170.00
Styrene	38.1	ug/L	40.0	95.15	50.00-170.00
Tetrachloroethene	37.0	ug/L	40.0	92.52	50.00-170.00
Toluene	33.0	ug/L	40.0	82.60	50.00-170.00
Trichloroethene	33.4	ug/L	40.0	83.60	50.00-170.00
Trichlorofluoromethane	51.1	ug/L	40.0	127.80	50.00-170.00
Vinyl chloride	58.5	ug/L	40.0	146.20	50.00-170.00
Xylenes	115	ug/L	120	96.17	50.00-170.00
cis-1,2-dichloroethene	32.2	ug/L	40.0	80.53	50.00-170.00
cis-1,3-Dichloropropene	35.7	ug/L	40.0	89.25	50.00-170.00
o-dichlorobenzene	34.6	ug/L	40.0	86.53	50.00-170.00
trans-1,2-dichloroethene	32.2	ug/L	40.0	80.42	50.00-170.00
trans-1,3,-Dichloropropene	40.4	ug/L	40.0	100.88	50.00-170.00
Surr:1,2-Dichloroethane-d4	39.4	ug/L	30.0	131.27	50.00-170.00
Surr:Bromofluorobenzene	26.9	ug/L	30.0	89.53	50.00-170.00
Surr:Toluene-d8	31.8	ug/L	30.0	106.10	50.00-170.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
1,1,1,2-Tetrachloroethane	12.2	ug/L	20.0	61.10	50.00-170.00	0.500U
1,1,1-Trichloroethane	15.9	ug/L	20.0	79.55	50.00-170.00	0.500U
1,1,2,2-Tetrachloroethane	12.8	ug/L	20.0	64.10	50.00-170.00	0.100U
1,1,2-Trichloroethane	12.0	ug/L	20.0	59.90	50.00-170.00	0.500U
1,1-Dichloroethane	13.5	ug/L	20.0	67.65	50.00-170.00	0.500U

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Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
1,1-Dichloroethene	15.7	ug/L	20.0	78.60	50.00-170.00	0.500U
1,2-dichloroethane	17.0	ug/L	20.0	84.75	50.00-170.00	0.500U
1,2-dichloropropane	12.4	ug/L	20.0	61.90	50.00-170.00	0.200U
2-Butanone (MEK)	16.5	ug/L	20.0	82.50	50.00-170.00	0.500U
2-Hexanone	12.4	ug/L	20.0	61.80	50.00-170.00	0.500U
Acetone	16.2	ug/L	20.0	80.95	50.00-170.00	5.00U
Acrylonitrile	11.7	ug/L	20.0	58.55	50.00-170.00	0.300U
Benzene	12.8	ug/L	20.0	63.85	50.00-170.00	0.500U
Bromochloromethane	14.4	ug/L	20.0	72.15	50.00-170.00	0.100U
Bromodichloromethane	13.9	ug/L	20.0	69.70	50.00-170.00	0.100U
Bromoform	11.7	ug/L	20.0	58.25	50.00-170.00	0.500U
Bromomethane	32.9	ug/L	20.0	164.30	50.00-170.00	0.500U
Carbon Tetrachloride	16.3	ug/L	20.0	81.45	50.00-170.00	0.500U
Chlorobenzene	11.9	ug/L	20.0	59.60	50.00-170.00	0.500U
Chloroethane	21.7	ug/L	20.0	108.25	50.00-170.00	0.500U
Chloroform	14.3	ug/L	20.0	71.50	50.00-170.00	0.500U
Chloromethane	15.8	ug/L	20.0	79.00	50.00-170.00	0.500U
Dibromochloromethane	12.0	ug/L	20.0	60.05	50.00-170.00	0.400U
Dibromomethane	14.9	ug/L	20.0	74.30	50.00-170.00	0.500U
Ethylbenzene	13.1	ug/L	20.0	65.45	50.00-170.00	0.500U
Methyl Iodide	11.3	ug/L	20.0	56.30	50.00-170.00	1.00U
Methyl isobutyl ketone	12.1	ug/L	20.0	60.55	50.00-170.00	1.00U
Methylene chloride	12.9	ug/L	20.0	64.40	50.00-170.00	1.00U
Para-dichlorobenzene	12.6	ug/L	20.0	63.10	50.00-170.00	0.500U
Styrene	12.3	ug/L	20.0	61.30	50.00-170.00	0.500U
Tetrachloroethene	13.2	ug/L	20.0	65.95	50.00-170.00	0.500U
Toluene	11.6	ug/L	20.0	57.80	50.00-170.00	0.500U
Trichloroethene	13.2	ug/L	20.0	65.85	50.00-170.00	0.500U
Trichlorofluoromethane	18.9	ug/L	20.0	94.35	50.00-170.00	0.500U

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Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Vinyl chloride	22.8	ug/L	20.0	113.75	50.00-170.00	0.500U
Xylenes	40.6	ug/L	60.0	67.67	50.00-170.00	0.500U
cis-1,2-dichloroethene	12.7	ug/L	20.0	63.40	50.00-170.00	0.200U
cis-1,3-Dichloropropene	12.9	ug/L	20.0	64.65	50.00-170.00	0.500U
o-dichlorobenzene	12.3	ug/L	20.0	61.50	50.00-170.00	0.500U
trans-1,2-dichloroethene	13.4	ug/L	20.0	66.80	50.00-170.00	0.500U
trans-1,3,-Dichloropropene	11.9	ug/L	20.0	59.70	50.00-170.00	0.500U
Surr:1,2-Dichloroethane-d4	42.4	ug/L	30.0	141.47	50.00-170.00	
Surr:Bromofluorobenzene	29.7	ug/L	30.0	98.83	50.00-170.00	
Surr:Toluene-d8	31.8	ug/L	30.0	106.13	50.00-170.00	

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,1,1,2-Tetrachloroethane	13.4	ug/L	20.0	66.85	50.00-170.00	0.500U	8.99	30.00
1,1,1-Trichloroethane	15.7	ug/L	20.0	78.40	50.00-170.00	0.500U	1.46	30.00
1,1,2,2-Tetrachloroethane	14.6	ug/L	20.0	73.00	50.00-170.00	0.100U	12.98	30.00
1,1,2-Trichloroethane	13.2	ug/L	20.0	65.90	50.00-170.00	0.500U	9.54	30.00
1,1-Dichloroethane	13.7	ug/L	20.0	68.25	50.00-170.00	0.500U	0.88	30.00
1,1-Dichloroethene	16.3	ug/L	20.0	81.30	50.00-170.00	0.500U	3.38	30.00
1,2-dichloroethane	17.8	ug/L	20.0	88.80	50.00-170.00	0.500U	4.67	30.00
1,2-dichloropropane	12.9	ug/L	20.0	64.60	50.00-170.00	0.200U	4.27	30.00
2-Butanone (MEK)	16.1	ug/L	20.0	80.60	50.00-170.00	0.500U	2.33	30.00
2-Hexanone	13.9	ug/L	20.0	69.55	50.00-170.00	0.500U	11.80	30.00
Acetone	18.7	ug/L	20.0	93.60	50.00-170.00	5.00U	14.49	30.00
Acrylonitrile	13.4	ug/L	20.0	67.20	50.00-170.00	0.300U	13.76	30.00
Benzene	13.0	ug/L	20.0	65.05	50.00-170.00	0.500U	1.86	30.00
Bromochloromethane	14.6	ug/L	20.0	73.15	50.00-170.00	0.100U	1.38	30.00
Bromodichloromethane	14.8	ug/L	20.0	73.80	50.00-170.00	0.100U	5.71	30.00
Bromoform	13.1	ug/L	20.0	65.45	50.00-170.00	0.500U	11.64	30.00
Bromomethane	33.1	ug/L	20.0	165.30	50.00-170.00	0.500U	0.61	30.00

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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Carbon Tetrachloride	15.5	ug/L	20.0	77.55	50.00-170.00	0.500U	4.91	30.00
Chlorobenzene	13.3	ug/L	20.0	66.50	50.00-170.00	0.500U	10.94	30.00
Chloroethane	23.8	ug/L	20.0	119.00	50.00-170.00	0.500U	9.46	30.00
Chloroform	14.6	ug/L	20.0	72.85	50.00-170.00	0.500U	1.87	30.00
Chloromethane	16.3	ug/L	20.0	81.25	50.00-170.00	0.500U	2.81	30.00
Dibromochloromethane	13.5	ug/L	20.0	67.25	50.00-170.00	0.400U	11.31	30.00
Dibromomethane	15.7	ug/L	20.0	78.30	50.00-170.00	0.500U	5.24	30.00
Ethylbenzene	14.3	ug/L	20.0	71.35	50.00-170.00	0.500U	8.63	30.00
Methyl Iodide	11.9	ug/L	20.0	59.30	50.00-170.00	1.00U	5.19	30.00
Methyl Isobutyl ketone	14.3	ug/L	20.0	71.55	50.00-170.00	1.00U	16.65	30.00
Methylene chloride	14.3	ug/L	20.0	71.50	50.00-170.00	1.00U	10.45	30.00
Para-dichlorobenzene	12.6	ug/L	20.0	62.75	50.00-170.00	0.500U	0.56	30.00
Styrene	13.7	ug/L	20.0	68.70	50.00-170.00	0.500U	11.38	30.00
Tetrachloroethene	13.9	ug/L	20.0	69.25	50.00-170.00	0.500U	4.88	30.00
Toluene	13.0	ug/L	20.0	64.75	50.00-170.00	0.500U	11.34	30.00
Trichloroethene	13.9	ug/L	20.0	69.40	50.00-170.00	0.500U	5.25	30.00
Trichlorofluoromethane	20.1	ug/L	20.0	100.30	50.00-170.00	0.500U	6.11	30.00
Vinyl chloride	23.8	ug/L	20.0	119.15	50.00-170.00	0.500U	4.64	30.00
Xylenes	44.2	ug/L	60.0	73.68	50.00-170.00	0.500U	8.51	30.00
cis-1,2-dichloroethene	13.1	ug/L	20.0	65.60	50.00-170.00	0.200U	3.41	30.00
cis-1,3-Dichloropropene	13.5	ug/L	20.0	67.45	50.00-170.00	0.500U	4.24	30.00
o-dichlorobenzene	13.0	ug/L	20.0	64.80	50.00-170.00	0.500U	5.23	30.00
trans-1,2-dichloroethene	12.7	ug/L	20.0	63.65	50.00-170.00	0.500U	4.83	30.00
trans-1,3,-Dichloropropene	13.6	ug/L	20.0	68.00	50.00-170.00	0.500U	13.00	30.00
Surr:1,2-Dichloroethane-d4	42.0	ug/L	30.0	140.00	50.00-170.00		1.04	30.00
Surr:Bromofluorobenzene	29.1	ug/L	30.0	97.13	50.00-170.00		1.73	30.00
Surr:Toluene-d8	32.7	ug/L	30.0	108.90	50.00-170.00		2.57	30.00

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Quality Control Batch: 10372857	Analyst: BNP							
Blank	**Result**	**Units**						
TDS	2.50U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
TDS	1490	mg/L	1500	99.20	50.00-150.00			

Quality Control Batch: 10373092	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	0.221	ug/L	0.251	87.71	50.00-170.00			
1,2-Dibromoethane (EDB)	0.243	ug/L	0.251	96.82	50.00-170.00			
1,2-dibromo-3-chloropropane	0.221	ug/L	0.251	87.79	50.00-170.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
1,2,3-Trichloropropane	0.217	ug/L	0.251	86.48	50.00-170.00	0.0200U		
1,2-Dibromoethane (EDB)	0.237	ug/L	0.251	94.15	50.00-170.00	0.0100U		
1,2-dibromo-3-chloropropane	0.222	ug/L	0.251	88.42	50.00-170.00	0.0200U		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
1,2,3-Trichloropropane	0.277	ug/L	0.251	110.30	50.00-170.00	0.0200U	24.22	30.00
1,2-Dibromoethane (EDB)	0.290	ug/L	0.251	115.31	50.00-170.00	0.0100U	20.21	30.00

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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,2-dibromo-3-chloropropane	0.292	ug/L	0.251	116.27	50.00-170.00	0.0200U	27.21	30.00

Quality Control Batch: 10373173 Analyst: EVB

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

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Iron	10.3	mg/L	10.0	103.34	80.00-120.00
Sodium	10.1	mg/L	10.0	100.85	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Iron	5.10	mg/L	5.00	101.35	75.00-125.00	0.0322
Sodium	11.1	mg/L	5.00	115.14	75.00-125.00	5.35

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	5.04	mg/L	5.00	100.25	75.00-125.00	0.0322	1.08	20.00
Sodium	10.9	mg/L	5.00	110.11	75.00-125.00	5.35	2.29	20.00

Quality Control Batch: 10373249

Blank	Result	Units
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.000200U	mg/L
Chromium	0.00100U	mg/L
Cobalt	0.00100U	mg/L
Copper	0.00100U	mg/L

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Quality Control Batch: 10373249	Analyst: EVB					
Blank	**Result**	**Units**				
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	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	
Antimony	0.0911	mg/L	0.100	91.10	80.00-120.00	
Arsenic	0.105	mg/L	0.100	105.30	80.00-120.00	
Barium	0.103	mg/L	0.100	102.90	80.00-120.00	
Beryllium	0.0976	mg/L	0.100	97.60	80.00-120.00	
Cadmium	0.0960	mg/L	0.100	96.00	80.00-120.00	
Chromium	0.101	mg/L	0.100	100.80	80.00-120.00	
Cobalt	0.0999	mg/L	0.100	99.90	80.00-120.00	
Copper	0.112	mg/L	0.100	111.80	80.00-120.00	
Lead	0.105	mg/L	0.100	105.00	80.00-120.00	
Nickel	0.0988	mg/L	0.100	98.80	80.00-120.00	
Selenium	0.0953	mg/L	0.100	95.30	80.00-120.00	
Silver	0.0890	mg/L	0.100	89.00	80.00-120.00	
Thallium	0.0947	mg/L	0.100	94.70	80.00-120.00	
Vanadium	0.102	mg/L	0.100	101.50	80.00-120.00	
Zinc	0.0990	mg/L	0.100	99.00	80.00-120.00	
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Antimony	0.0811	mg/L	0.100	81.10	75.00-125.00	0.00200U
Arsenic	0.110	mg/L	0.100	97.40	75.00-125.00	0.0122
Barium	0.135	mg/L	0.100	117.10	75.00-125.00	0.0179

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Quality Control Batch: 10373249

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Beryllium	0.108	mg/L	0.100	107.80	75.00-125.00	0.000500U
Cadmium	0.0810	mg/L	0.100	81.00	75.00-125.00	0.000200U
Chromium	0.123	mg/L	0.100	115.30	75.00-125.00	0.00720
Cobalt	0.107	mg/L	0.100	106.80	75.00-125.00	0.00100U
Copper	0.100	mg/L	0.100	100.20	75.00-125.00	0.00100U
Lead	0.0971	mg/L	0.100	97.10	75.00-125.00	0.00100U
Nickel	0.108	mg/L	0.100	106.30	75.00-125.00	0.00210
Selenium	0.0745	mg/L	0.100	74.50	75.00-125.00	0.00200U
Silver	0.0868	mg/L	0.100	86.80	75.00-125.00	0.000500U
Thallium	0.0874	mg/L	0.100	87.40	75.00-125.00	0.00100U
Vanadium	0.117	mg/L	0.100	100.20	75.00-125.00	0.0171
Zinc	0.0812	mg/L	0.100	81.20	75.00-125.00	0.0100U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Antimony	0.0813	mg/L	0.100	81.30	75.00-125.00	0.00200U	0.25	20.00
Arsenic	0.109	mg/L	0.100	96.60	75.00-125.00	0.0122	0.73	20.00
Barium	0.132	mg/L	0.100	114.40	75.00-125.00	0.0179	2.02	20.00
Beryllium	0.109	mg/L	0.100	109.20	75.00-125.00	0.000500U	1.29	20.00
Cadmium	0.0853	mg/L	0.100	85.30	75.00-125.00	0.000200U	5.17	20.00
Chromium	0.127	mg/L	0.100	119.70	75.00-125.00	0.00720	3.53	20.00
Cobalt	0.111	mg/L	0.100	111.40	75.00-125.00	0.00100U	4.22	20.00
Copper	0.104	mg/L	0.100	103.80	75.00-125.00	0.00100U	3.53	20.00
Lead	0.0948	mg/L	0.100	94.80	75.00-125.00	0.00100U	2.40	20.00
Nickel	0.111	mg/L	0.100	108.80	75.00-125.00	0.00210	2.28	20.00
Selenium	0.0839	mg/L	0.100	83.90	75.00-125.00	0.00200U	11.87	20.00
Silver	0.0867	mg/L	0.100	86.70	75.00-125.00	0.000500U	0.12	20.00
Thallium	0.0859	mg/L	0.100	85.90	75.00-125.00	0.00100U	1.73	20.00
Vanadium	0.120	mg/L	0.100	103.00	75.00-125.00	0.0171	2.36	20.00
Zinc	0.0855	mg/L	0.100	85.50	75.00-125.00	0.0100U	5.16	20.00

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3980 Overseas Hwy, Suite 103, Marathon, FL 33050 Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

Quality Control Batch: 10373438	Analyst: TGL							
Blank	**Result**	**Units**						
Chloride	4.00U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Chloride	110	mg/L	100	109.75	80.00-120.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Chloride	119	mg/L	100	113.65	80.00-120.00	5.05		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Chloride	105	mg/L	100	99.84	80.00-120.00	5.05	12.35	20.00

Quality Control Batch: 10373576	Analyst: PCW							
Blank	**Result**	**Units**						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Ammonia (as N)	2.09	mg/L	2.00	104.50	85.00-115.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Ammonia (as N)	1.91	mg/L	1.67	90.84	85.00-115.00	0.393		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Ammonia (as N)	1.89	mg/L	1.67	89.64	85.00-115.00	0.393	1.05	20.00

Quality Control Batch: 10373751	Analyst: EVB							
Blank	**Result**	**Units**						
Mercury	0.0000200U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			

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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.00102	mg/L	0.00100	102.10	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00303	mg/L	0.00300	100.96	80.00-120.00	0.00000220

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00297	mg/L	0.00300	98.93	80.00-120.00	0.00000220	2.03	20.00

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PO #: 1003580
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Date Sampled: May 22, 2018
Jun 5, 2018; Invoice: 366683

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.

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	Estimated value; one or more QC components associated with this data value exceed current QC limits.
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.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
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

☒ **Flowers Chemical Laboratories, Inc.**
481 Newburyport Ave.
Altamonte Springs, FL 32701
Bus: 407-339-5984
Fax: 407-260-6110

☐ **Flowers Chemical Labs-South**
West Park Industrial Plaza
571 N.W. Mercantile Pl., Ste. 111
Port St. Lucie, FL 34986
Bus: 772-343-8006
Fax: 772-343-8089

☐ **Flowers Chemical Labs-North**
812 S.W. Harvey Greene Dr.
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☐ **Flowers Chemical Labs-Keys**
3980 Overseas Highway, Ste. 103
Marathon, FL 33050
Bus: 305-743-8598
Fax: 305-743-8598

FLOWERS CHEMICAL LABORATORIES INCORPORATED

DOWNLOAD REPORTS, INVOICES AND CHAINS OF CUSTODY www.flowerslabs.com

Client: Atkins North America
Address: 4030 W. Boy Scout Boulevard Suite 700, Tampa, FL 33607
Phone: 813-281-8377
Sampled By (PRINT): Bradley J. Bayne
Sampler Signature: Bradley J Bayne
Date Sampled: 5/23/2018

Project Name: Hardee Co. Landfill
Client Contact: Brad Bayne
FCL Project Manager: June Flowers
Requested Due Date: (10 Day Standard) OR MM DD YY
P.O. #: June has it
FAX: Project # 100058586
E-MAIL: bradley.bayne@atkinsglobal.com
Rush Charges May Apply

Pick-Up Fee: $ 35
Vehicle Surcharge: $
Sampling Fee: $

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.	PRESERVATIVES: NONE	H_2SO_4	HNO_3	HCl	$Na_2S_2O_3$	ANALYSES REQUEST: Metals	8260	8011	CL, NO3, TDS	NH3-N	COMMENTS	Total # Containers
1	MW-4	5/22/18	9:05	GW	366683GW1	3	1	1	2		✓	✓	✓	✓	✓	Run Hardee Co. LF List	
2	MW-2	5/22/18	10:30	GW	2	3	1	1	2		✓	✓	✓	✓	✓		
3	MW-1	5/22/18	11:50	GW	3	3	1	1	2		✓	✓	✓	✓	✓		
4	MW-14	5/22/18	13:00	GW	4	3	1	1	2		✓	✓	✓	✓	✓		
5	MW-13	5/22/18	14:00	GW	5	3	1	1	2		✓	✓	✓	✓	✓		
6	MW-12R	5/22/18	15:00	GW	6	3	1	1	2		✓	✓	✓	✓	✓		
7	MW-11	5/23/18	9:15	GW	7	3	1	1	2		✓	✓	✓	✓	✓		
8	MW-10R	5/23/18	10:15	GW	8	3	1	1	2		✓	✓	✓	✓	✓		
9	Trip Blank				9	1						✓					
10																	

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Bradley Bayne	5/23/18	11:40	[signature]	5/23/18	11:40	[signature]	5/23/18		MM Itm	5/23	13:55

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• **WHITE** - Lab Copy - To Be Scanned • **YELLOW** - Client Copy

Rev 04-08

Flowers Chemical Laboratories

KIT REQUEST FORM

481 Newburyport Ave.
Altamonte Springs, FL 32701 Phone (407) 339-5984 Fax (407) 260-6110

FCL Project Manager: June Flowers

Total Containers	PARAMETERS	Containers per Sample	Matrix	Preservative: Methanol 10ml	HNO3	Zn (C2H3O2) / NaOH	Na2S2O3	H2SO4	NaOH / Asc Acid	MnSO4/ ALK AZIDE	HCL	NH4CL	Plastic: 125 mL CLEAR	250 mL AMBER	250 mL CLEAR	500 mL CLEAR	1 L CLEAR	Whirl Pak BAG	Coli Bottle	Glass Containers: 40 mL vial	125 mL AMBER	250 mL AMBER	1 L CLEAR	1 L AMBER	4 L AMBER	4 oz Soil AMBER	8 oz Soil CLEAR		300 mL BOD Bottle
8	Metals	1	GW		X										X														
16	App 1 (8260)	2	GW								X									X									
16	App 1 (8011)	2	GW																	X									
8	Cl-, NO3, TDS	1	GW													X													
8	NH3	1	GW					X					X																	
	Hardee kit 1																												
	"LandfillApp1+" = quicklist																												
	It includes the field parms																												

Ship To: Client #

Atkins - Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa FL 33707
ATTN: Bradley Bayne

Project: "40612"
Location: Hardee County Landf
Sampling Dates:

Date Ordered: 05/11/18

Extra Coolers: [ ] (L) [ ] (M) [ ] (S)
Trip Blanks: [1] w/HCl [ ] w/o HCl
Custody Chain: [1] Env. [ ] DW
Temp Blank: [ ] Bailers: [ ]

Special Notes: Cooler ID
Use Quicklist"LandfillApp1+"
It includes the field parms

Date to be Shipped: 05/15/18

Date Needed: 05/17/18

[ ] Customer Pick Up:

Date: _____ Time: _____

SHIPPING METHOD

[X] STD. UPS [ ] DHL Next Day
[ ] Fed-Ex Flowers Account
[ ] Fed-Ex Client Account #
[ ] Other:

SAMPLE KIT ID: Return this with COC

Thank You for Your Business

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Tampa,FL 33607

PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 23, 2018
Jun 5, 2018; Invoice: 366686

Report Summary

Date Received: May 23, 2018 FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
366686SW1	SW-2/21062	COLILERT-18	ECG	Main Lab	Surface Water
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA410.4	CTH	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CTH	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM10200 H	IAD	Main Lab	
		SM2340 B	EVB	Main Lab	
		SM2540 C	BNP	Main Lab	
		SM2540 D	BNP	Main Lab	
		SM5210 B	OKS	Main Lab	
		SM5310 C	PCW	Main Lab	
		TotNit			
366686SW2	Trip Blank 2	EPA8260	CTH	Main Lab	Surface Water

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 #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 23, 2018
Jun 5, 2018; Invoice: 366686

Analysis Report

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Total Nitrogen(as N)	1.45		0				TotNit	17778-88-0		
Unionized NH3(as N)	0.000323	mg/L	1.00	0.000100	0.000200	10274203	FDEP DEP-SOF			
Chemical Oxygen Demand	57.8	mg/L	1.00	10.0	20.0	10282904	EPA410.4	C-004	05/29/18	
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10372639	EPA353.2	14797-55-8	05/23/18	04:43 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10372639	EPA353.2	14797-65-0	05/23/18	04:43 PM
Fecal Coliform	2690	mpn/100mL	1.00	1.00	1.00	10372678	COLILERT-18	E761792	05/23/18	03:20 PM
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	630-20-6	05/24/18	
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18	
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18	
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18	
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18	
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18	
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18	
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18	
2-Butanone (MEK)	1.60	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18	
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18	
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18	
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18	
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18	
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18	
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18	
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18	
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18	
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18	
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18	
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18	
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18	

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PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 23, 2018
Jun 5, 2018; Invoice: 366686

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.510 I	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	143.20%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	93.90%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	106.90%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
TSS	4.75	mg/L	1.00	1.00	2.00	10372862	SM2540 D	E1642818	05/25/15
Field pH (units)	7.01	pH	1.00	0.0100	0.0200	10372929	FT1100	C006	05/23/18
Field Conductivity	385	umhos/cm	1.00	0.100	0.100	10372930	FT1200		05/23/18

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PO #: 1003580
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Field Temp. (C)	24.9	oC	1.00	0.100	0.100	10372931	FT1400		05/23/18
Field DO	1.47	mg/L	1.00	0.100	0.100	10372932	FT1500		05/23/18
Field Turbidity	7.87	NTU	1.00	0.100	0.100	10372933	FT1600		05/23/18
TDS	272	mg/L	1.00	2.50	5.00	10372982	SM2540 C	10-33-3	05/25/18
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	096-18-4	05/24/18
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10373092	EPA8011	106-93-4	05/24/18
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10373092	EPA8011	96-12-8	05/24/18
Aluminum	0.0309	mg/L	1.00	0.0100	0.0200	10373157	EPA6020	7429-90-5	05/29/18
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10373157	EPA6020	7440-36-0	05/29/18
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-38-2	05/29/18
Barium	0.0159	mg/L	1.00	0.00200	0.00400	10373157	EPA6020	7440-39-3	05/29/18
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10373157	EPA6020	7440-41-7	05/29/18
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10373157	EPA6020	7440-43-9	05/29/18
Chromium	0.00120 I	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-47-3	05/29/18
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-48-4	05/29/18
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-50-8	05/29/18
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7439-92-1	05/29/18
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-02-0	05/29/18
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10373157	EPA6020	7782-49-2	05/29/18
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10373157	EPA6020	7440-22-4	05/29/18
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-28-0	05/29/18
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10373157	EPA6020	7440-62-2	05/29/18
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10373157	EPA6020	7440-66-6	05/29/18
Iron	0.650	mg/L	1.00	0.0100	0.0200	10373173	EPA6010	7439-89-6	05/29/18
Total Hardness (as CaCO3)	147	mg/L	1.00	0.100	0.200	10373177	SM2340 B	40-11-9	05/29/18
Chlorophyll a	14.6	ug/L	1.00	0.0200	0.0800	10373184	SM10200 H	479-61-8	05/30/18
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10373264	EPA245.1	7439-97-6	05/31/18
TOC	21.0	mg/L	1.00	1.00	2.00	10373451	SM5310 C	E701250	05/31/18
Total Phosphorus(as P)	1.02	mg/L	1.00	0.0400	0.100	10373461	EPA365.4	7723-14-0	06/01/18

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TKN(as N)	1.45	mg/L	1.00	0.200	0.400	10373463	EPA351.2	7727-37-9	06/01/18	
Ammonia (as N)	0.0587	mg/L	1.00	0.0100	0.0200	10373577	EPA350.1	7664-41-7	06/04/18	
BOD5day	3.30	mg/L	1.00	2.00	2.00	10373631	SM5210 B	E1640606	05/24/18	02:23 PM

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	10372826	EPA8260	630-20-6	05/24/18
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-55-6	05/24/18
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	79-34-5	05/24/18
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-00-5	05/24/18
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-34-3	05/24/18
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-35-4	05/24/18
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10372826	EPA8260	107-06-2	05/24/18
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	78-87-5	05/24/18
2-Butanone (MEK)	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	78-93-3	05/24/18
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	591-78-6	05/24/18
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10372826	EPA8260	67-64-1	05/24/18
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10372826	EPA8260	107-13-1	05/24/18
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	71-43-2	05/24/18
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10372826	EPA8260	074-97-5	05/24/18
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10372826	EPA8260	75-27-4	05/24/18
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-25-2	05/24/18
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-83-9	05/24/18
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-15-0	05/24/18
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	56-23-5	05/24/18
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-90-7	05/24/18
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-00-3	05/24/18
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	67-66-3	05/24/18
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	74-87-3	05/24/18

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Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10372826	EPA8260	124-48-1	05/24/18
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	074-95-3	05/24/18
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-41-4	05/24/18
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	074-88-4	05/24/18
Methyl Isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	108-10-1	05/24/18
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	75-09-2	05/24/18
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	106-46-7	05/24/18
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	100-42-5	05/24/18
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	127-18-4	05/24/18
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	108-88-3	05/24/18
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	79-01-6	05/24/18
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-69-4	05/24/18
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10372826	EPA8260	108-05-4	05/24/18
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	75-01-4	05/24/18
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	1330-20-7	05/24/18
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10372826	EPA8260	156-59-2	05/24/18
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-01-5	05/24/18
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	95-50-1	05/24/18
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	156-60-5	05/24/18
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10372826	EPA8260	10061-02-6	05/24/18
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10372826	EPA8260	110-57-6	05/24/18
Surr:1,2-Dichloroethane-d4 (50-170%)	140.80%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18
Surr:Bromofluorobenzene (50-170%)	91.73%		1.00	1.00	1.00	10372826	EPA8260	460-00-4	05/24/18
Surr:Toluene-d8 (50-170%)	99.07%		1.00	0.0100	0.0100	10372826	EPA8260		05/24/18

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Quality Report

Blank	Result	Units
Unionized NH3(as N)	0.000100U	mg/L

Blank	Result	Units
Chemical Oxygen Demand	20.0U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chemical Oxygen Demand	500	mg/L	500	99.99	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chemical Oxygen Demand	669	mg/L	200	99.49	80.00-120.00	470

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chemical Oxygen Demand	669	mg/L	200	99.49	80.00-120.00	470	0.00	20.00

Quality Control Batch: 10372639 **Analyst:** PCW

Blank	Result	Units
Nitrate(as N)	0.0100U	mg/L
Nitrite(as N)	0.0200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Nitrate(as N)	1.16	mg/L	1.00	115.50	85.00-115.00
Nitrite(as N)	0.965	mg/L	1.00	96.50	85.00-115.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Nitrate(as N)	5.64	mg/L	4.00	111.23	85.00-115.00	1.19

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Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
Nitrite(as N)	3.97	mg/L	4.00	99.25	85.00-115.00	0.0200U		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Nitrate(as N)	5.63	mg/L	4.00	110.98	85.00-115.00	1.19	0.18	20.00
Nitrite(as N)	3.96	mg/L	4.00	99.00	85.00-115.00	0.0200U	0.25	20.00

Blank	Result	Units
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
1,2-dichloropropane	0.200U	ug/L
2-Butanone (MEK)	0.500U	ug/L
2-Hexanone	0.500U	ug/L
Acetone	5.00U	ug/L
Acrylonitrile	0.300U	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

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Quality Control Batch: 10372826	Analyst: CTH	
Blank	**Result**	**Units**
Chloroethane	0.500U	ug/L
Chloroform	0.500U	ug/L
Chloromethane	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
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	10.0U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	0.500U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
o-dichlorobenzene	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
Surr:1,2-Dichloroethane-d4	40.5	ug/L
Surr:Bromofluorobenzene	27.9	ug/L
Surr:Toluene-d8	33.2	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim

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1,1,1,2-Tetrachloroethane	36.4	ug/L	40.0	90.97	50.00-170.00
1,1,1-Trichloroethane	38.3	ug/L	40.0	95.75	50.00-170.00
1,1,2,2-Tetrachloroethane	40.2	ug/L	40.0	100.57	50.00-170.00
1,1,2-Trichloroethane	35.7	ug/L	40.0	89.35	50.00-170.00
1,1-Dichloroethane	33.3	ug/L	40.0	83.22	50.00-170.00
1,1-Dichloroethene	38.2	ug/L	40.0	95.50	50.00-170.00
1,2-dichloroethane	43.9	ug/L	40.0	109.85	50.00-170.00
1,2-dichloropropane	32.5	ug/L	40.0	81.18	50.00-170.00
2-Butanone (MEK)	42.4	ug/L	40.0	106.05	50.00-170.00
2-Hexanone	43.3	ug/L	40.0	108.18	50.00-170.00
Acetone	40.2	ug/L	40.0	100.38	50.00-170.00
Acrylonitrile	37.4	ug/L	40.0	93.55	50.00-170.00
Benzene	31.7	ug/L	40.0	79.12	50.00-170.00
Bromochloromethane	39.9	ug/L	40.0	99.78	50.00-170.00
Bromodichloromethane	38.3	ug/L	40.0	95.83	50.00-170.00
Bromoform	40.6	ug/L	40.0	101.45	50.00-170.00
Bromomethane	40.5	ug/L	40.0	101.17	50.00-170.00
Carbon Disulfide	30.7	ug/L	40.0	76.70	50.00-170.00
Carbon Tetrachloride	40.0	ug/L	40.0	100.07	50.00-170.00
Chlorobenzene	34.9	ug/L	40.0	87.35	50.00-170.00
Chloroethane	32.6	ug/L	40.0	81.55	50.00-170.00
Chloroform	37.8	ug/L	40.0	94.55	50.00-170.00
Chloromethane	42.3	ug/L	40.0	105.70	50.00-170.00
Dibromochloromethane	38.4	ug/L	40.0	96.03	50.00-170.00
Dibromomethane	43.2	ug/L	40.0	107.90	50.00-170.00
Ethylbenzene	37.5	ug/L	40.0	93.70	50.00-170.00
Methyl Iodide	29.9	ug/L	40.0	74.78	50.00-170.00
Methyl isobutyl ketone	38.4	ug/L	40.0	95.87	50.00-170.00
Methylene chloride	37.4	ug/L	40.0	93.60	50.00-170.00

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PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 23, 2018
Jun 5, 2018; Invoice: 366686

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Para-dichlorobenzene	34.2	ug/L	40.0	85.60	50.00-170.00
Styrene	38.1	ug/L	40.0	95.15	50.00-170.00
Tetrachloroethene	37.0	ug/L	40.0	92.52	50.00-170.00
Toluene	33.0	ug/L	40.0	82.60	50.00-170.00
Trichloroethene	33.4	ug/L	40.0	83.60	50.00-170.00
Trichlorofluoromethane	51.1	ug/L	40.0	127.80	50.00-170.00
Vinyl chloride	58.5	ug/L	40.0	146.20	50.00-170.00
Xylenes	115	ug/L	120	96.17	50.00-170.00
cis-1,2-dichloroethene	32.2	ug/L	40.0	80.53	50.00-170.00
cis-1,3-Dichloropropene	35.7	ug/L	40.0	89.25	50.00-170.00
o-dichlorobenzene	34.6	ug/L	40.0	86.53	50.00-170.00
trans-1,2-dichloroethene	32.2	ug/L	40.0	80.42	50.00-170.00
trans-1,3,-Dichloropropene	40.4	ug/L	40.0	100.88	50.00-170.00
Surr:1,2-Dichloroethane-d4	39.4	ug/L	30.0	131.27	50.00-170.00
Surr:Bromofluorobenzene	26.9	ug/L	30.0	89.53	50.00-170.00
Surr:Toluene-d8	31.8	ug/L	30.0	106.10	50.00-170.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
1,1,1,2-Tetrachloroethane	12.2	ug/L	20.0	61.10	50.00-170.00	0.500U
1,1,1-Trichloroethane	15.9	ug/L	20.0	79.55	50.00-170.00	0.500U
1,1,2,2-Tetrachloroethane	12.8	ug/L	20.0	64.10	50.00-170.00	0.100U
1,1,2-Trichloroethane	12.0	ug/L	20.0	59.90	50.00-170.00	0.500U
1,1-Dichloroethane	13.5	ug/L	20.0	67.65	50.00-170.00	0.500U
1,1-Dichloroethene	15.7	ug/L	20.0	78.60	50.00-170.00	0.500U
1,2-dichloroethane	17.0	ug/L	20.0	84.75	50.00-170.00	0.500U
1,2-dichloropropane	12.4	ug/L	20.0	61.90	50.00-170.00	0.200U
2-Butanone (MEK)	16.5	ug/L	20.0	82.50	50.00-170.00	0.500U
2-Hexanone	12.4	ug/L	20.0	61.80	50.00-170.00	0.500U
Acetone	16.2	ug/L	20.0	80.95	50.00-170.00	5.00U

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Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 23, 2018
Jun 5, 2018; Invoice: 366686

Analyst: CTH

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acrylonitrile	11.7	ug/L	20.0	58.55	50.00-170.00	0.300U
Benzene	12.8	ug/L	20.0	63.85	50.00-170.00	0.500U
Bromochloromethane	14.4	ug/L	20.0	72.15	50.00-170.00	0.100U
Bromodichloromethane	13.9	ug/L	20.0	69.70	50.00-170.00	0.100U
Bromoform	11.7	ug/L	20.0	58.25	50.00-170.00	0.500U
Bromomethane	32.9	ug/L	20.0	164.30	50.00-170.00	0.500U
Carbon Tetrachloride	16.3	ug/L	20.0	81.45	50.00-170.00	0.500U
Chlorobenzene	11.9	ug/L	20.0	59.60	50.00-170.00	0.500U
Chloroethane	21.7	ug/L	20.0	108.25	50.00-170.00	0.500U
Chloroform	14.3	ug/L	20.0	71.50	50.00-170.00	0.500U
Chloromethane	15.8	ug/L	20.0	79.00	50.00-170.00	0.500U
Dibromochloromethane	12.0	ug/L	20.0	60.05	50.00-170.00	0.400U
Dibromomethane	14.9	ug/L	20.0	74.30	50.00-170.00	0.500U
Ethylbenzene	13.1	ug/L	20.0	65.45	50.00-170.00	0.500U
Methyl Iodide	11.3	ug/L	20.0	56.30	50.00-170.00	1.00U
Methyl isobutyl ketone	12.1	ug/L	20.0	60.55	50.00-170.00	1.00U
Methylene chloride	12.9	ug/L	20.0	64.40	50.00-170.00	1.00U
Para-dichlorobenzene	12.6	ug/L	20.0	63.10	50.00-170.00	0.500U
Styrene	12.3	ug/L	20.0	61.30	50.00-170.00	0.500U
Tetrachloroethene	13.2	ug/L	20.0	65.95	50.00-170.00	0.500U
Toluene	11.6	ug/L	20.0	57.80	50.00-170.00	0.500U
Trichloroethene	13.2	ug/L	20.0	65.85	50.00-170.00	0.500U
Trichlorofluoromethane	18.9	ug/L	20.0	94.35	50.00-170.00	0.500U
Vinyl chloride	22.8	ug/L	20.0	113.75	50.00-170.00	0.500U
Xylenes	40.6	ug/L	60.0	67.67	50.00-170.00	0.500U
cis-1,2-dichloroethene	12.7	ug/L	20.0	63.40	50.00-170.00	0.200U
cis-1,3-Dichloropropene	12.9	ug/L	20.0	64.65	50.00-170.00	0.500U
o-dichlorobenzene	12.3	ug/L	20.0	61.50	50.00-170.00	0.500U
trans-1,2-dichloroethene	13.4	ug/L	20.0	66.80	50.00-170.00	0.500U

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Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
trans-1,3,-Dichloropropene	11.9	ug/L	20.0	59.70	50.00-170.00	0.500U
Surr:1,2-Dichloroethane-d4	42.4	ug/L	30.0	141.47	50.00-170.00	
Surr:Bromofluorobenzene	29.7	ug/L	30.0	98.83	50.00-170.00	
Surr:Toluene-d8	31.8	ug/L	30.0	106.13	50.00-170.00	

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,1,1,2-Tetrachloroethane	13.4	ug/L	20.0	66.85	50.00-170.00	0.500U	8.99	30.00
1,1,1-Trichloroethane	15.7	ug/L	20.0	78.40	50.00-170.00	0.500U	1.46	30.00
1,1,2,2-Tetrachloroethane	14.6	ug/L	20.0	73.00	50.00-170.00	0.100U	12.98	30.00
1,1,2-Trichloroethane	13.2	ug/L	20.0	65.90	50.00-170.00	0.500U	9.54	30.00
1,1-Dichloroethane	13.7	ug/L	20.0	68.25	50.00-170.00	0.500U	0.88	30.00
1,1-Dichloroethene	16.3	ug/L	20.0	81.30	50.00-170.00	0.500U	3.38	30.00
1,2-dichloroethane	17.8	ug/L	20.0	88.80	50.00-170.00	0.500U	4.67	30.00
1,2-dichloropropane	12.9	ug/L	20.0	64.60	50.00-170.00	0.200U	4.27	30.00
2-Butanone (MEK)	16.1	ug/L	20.0	80.60	50.00-170.00	0.500U	2.33	30.00
2-Hexanone	13.9	ug/L	20.0	69.55	50.00-170.00	0.500U	11.80	30.00
Acetone	18.7	ug/L	20.0	93.60	50.00-170.00	5.00U	14.49	30.00
Acrylonitrile	13.4	ug/L	20.0	67.20	50.00-170.00	0.300U	13.76	30.00
Benzene	13.0	ug/L	20.0	65.05	50.00-170.00	0.500U	1.86	30.00
Bromochloromethane	14.6	ug/L	20.0	73.15	50.00-170.00	0.100U	1.38	30.00
Bromodichloromethane	14.8	ug/L	20.0	73.80	50.00-170.00	0.100U	5.71	30.00
Bromoform	13.1	ug/L	20.0	65.45	50.00-170.00	0.500U	11.64	30.00
Bromomethane	33.1	ug/L	20.0	165.30	50.00-170.00	0.500U	0.61	30.00
Carbon Tetrachloride	15.5	ug/L	20.0	77.55	50.00-170.00	0.500U	4.91	30.00
Chlorobenzene	13.3	ug/L	20.0	66.50	50.00-170.00	0.500U	10.94	30.00
Chloroethane	23.8	ug/L	20.0	119.00	50.00-170.00	0.500U	9.46	30.00
Chloroform	14.6	ug/L	20.0	72.85	50.00-170.00	0.500U	1.87	30.00
Chloromethane	16.3	ug/L	20.0	81.25	50.00-170.00	0.500U	2.81	30.00
Dibromochloromethane	13.5	ug/L	20.0	67.25	50.00-170.00	0.400U	11.31	30.00

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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Dibromomethane	15.7	ug/L	20.0	78.30	50.00-170.00	0.500U	5.24	30.00
Ethylbenzene	14.3	ug/L	20.0	71.35	50.00-170.00	0.500U	8.63	30.00
Methyl Iodide	11.9	ug/L	20.0	59.30	50.00-170.00	1.00U	5.19	30.00
Methyl isobutyl ketone	14.3	ug/L	20.0	71.55	50.00-170.00	1.00U	16.65	30.00
Methylene chloride	14.3	ug/L	20.0	71.50	50.00-170.00	1.00U	10.45	30.00
Para-dichlorobenzene	12.6	ug/L	20.0	62.75	50.00-170.00	0.500U	0.56	30.00
Styrene	13.7	ug/L	20.0	68.70	50.00-170.00	0.500U	11.38	30.00
Tetrachloroethene	13.9	ug/L	20.0	69.25	50.00-170.00	0.500U	4.88	30.00
Toluene	13.0	ug/L	20.0	64.75	50.00-170.00	0.500U	11.34	30.00
Trichloroethene	13.9	ug/L	20.0	69.40	50.00-170.00	0.500U	5.25	30.00
Trichlorofluoromethane	20.1	ug/L	20.0	100.30	50.00-170.00	0.500U	6.11	30.00
Vinyl chloride	23.8	ug/L	20.0	119.15	50.00-170.00	0.500U	4.64	30.00
Xylenes	44.2	ug/L	60.0	73.68	50.00-170.00	0.500U	8.51	30.00
cis-1,2-dichloroethene	13.1	ug/L	20.0	65.60	50.00-170.00	0.200U	3.41	30.00
cis-1,3-Dichloropropene	13.5	ug/L	20.0	67.45	50.00-170.00	0.500U	4.24	30.00
o-dichlorobenzene	13.0	ug/L	20.0	64.80	50.00-170.00	0.500U	5.23	30.00
trans-1,2-dichloroethene	12.7	ug/L	20.0	63.65	50.00-170.00	0.500U	4.83	30.00
trans-1,3,-Dichloropropene	13.6	ug/L	20.0	68.00	50.00-170.00	0.500U	13.00	30.00
Surr:1,2-Dichloroethane-d4	42.0	ug/L	30.0	140.00	50.00-170.00		1.04	30.00
Surr:Bromofluorobenzene	29.1	ug/L	30.0	97.13	50.00-170.00		1.73	30.00
Surr:Toluene-d8	32.7	ug/L	30.0	108.90	50.00-170.00		2.57	30.00

Quality Control Batch: 10372862	Analyst: BNP	
Blank	**Result**	**Units**
TSS	1.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TSS	108	mg/L	100	108.00	50.00-150.00

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Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1490	mg/L	1500	99.47	50.00-150.00

Quality Control Batch: 10373092

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	0.221	ug/L	0.251	87.71	50.00-170.00
1,2-Dibromoethane (EDB)	0.243	ug/L	0.251	96.82	50.00-170.00
1,2-dibromo-3-chloropropane	0.221	ug/L	0.251	87.79	50.00-170.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
1,2,3-Trichloropropane	0.217	ug/L	0.251	86.48	50.00-170.00	0.0200U
1,2-Dibromoethane (EDB)	0.237	ug/L	0.251	94.15	50.00-170.00	0.0100U
1,2-dibromo-3-chloropropane	0.222	ug/L	0.251	88.42	50.00-170.00	0.0200U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,2,3-Trichloropropane	0.277	ug/L	0.251	110.30	50.00-170.00	0.0200U	24.22	30.00

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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
1,2-Dibromoethane (EDB)	0.290	ug/L	0.251	115.31	50.00-170.00	0.0100U	20.21	30.00
1,2-dibromo-3-chloropropane	0.292	ug/L	0.251	116.27	50.00-170.00	0.0200U	27.21	30.00

Blank	Result	Units
Aluminum	0.0100U	mg/L
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.000200U	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
Vanadium	0.00100U	mg/L
Zinc	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.111	mg/L	0.100	110.70	80.00-120.00
Antimony	0.0935	mg/L	0.100	93.50	80.00-120.00
Arsenic	0.104	mg/L	0.100	103.90	80.00-120.00
Barium	0.0992	mg/L	0.100	99.20	80.00-120.00
Beryllium	0.107	mg/L	0.100	106.90	80.00-120.00
Cadmium	0.104	mg/L	0.100	104.10	80.00-120.00

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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chromium	0.107	mg/L	0.100	106.50	80.00-120.00
Cobalt	0.104	mg/L	0.100	103.60	80.00-120.00
Copper	0.107	mg/L	0.100	106.60	80.00-120.00
Lead	0.103	mg/L	0.100	103.00	80.00-120.00
Nickel	0.107	mg/L	0.100	107.10	80.00-120.00
Selenium	0.0969	mg/L	0.100	96.90	80.00-120.00
Silver	0.0909	mg/L	0.100	90.90	80.00-120.00
Thallium	0.0912	mg/L	0.100	91.20	80.00-120.00
Vanadium	0.104	mg/L	0.100	104.40	80.00-120.00
Zinc	0.105	mg/L	0.100	105.00	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Aluminum	0.0985	mg/L	0.100	98.50	75.00-125.00	0.0100U
Antimony	0.0869	mg/L	0.100	86.90	75.00-125.00	0.00200U
Arsenic	0.113	mg/L	0.100	113.00	75.00-125.00	0.00100U
Barium	0.103	mg/L	0.100	98.10	75.00-125.00	0.00500
Beryllium	0.114	mg/L	0.100	113.60	75.00-125.00	0.000500U
Cadmium	0.104	mg/L	0.100	103.90	75.00-125.00	0.000200U
Chromium	0.101	mg/L	0.100	101.20	75.00-125.00	0.00100U
Cobalt	0.100	mg/L	0.100	100.40	75.00-125.00	0.00100U
Copper	0.0992	mg/L	0.100	95.40	75.00-125.00	0.00380
Lead	0.0973	mg/L	0.100	97.30	75.00-125.00	0.00100U
Nickel	0.102	mg/L	0.100	102.30	75.00-125.00	0.00100U
Selenium	0.112	mg/L	0.100	111.50	75.00-125.00	0.00200U
Silver	0.0885	mg/L	0.100	88.50	75.00-125.00	0.000500U
Thallium	0.0874	mg/L	0.100	87.40	75.00-125.00	0.00100U
Vanadium	0.105	mg/L	0.100	104.80	75.00-125.00	0.00100U
Zinc	0.450	mg/L	0.100	108.20	75.00-125.00	0.342

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

PO #: 1003580
Client Project #: HARDEE COUNTY REGIONAL LAN
Date Sampled: May 23, 2018
Jun 5, 2018; Invoice: 366686

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Aluminum	0.0983	mg/L	0.100	98.30	75.00-125.00	0.0100U	0.20	20.00
Antimony	0.0898	mg/L	0.100	89.80	75.00-125.00	0.00200U	3.28	20.00
Arsenic	0.109	mg/L	0.100	109.30	75.00-125.00	0.00100U	3.33	20.00
Barium	0.101	mg/L	0.100	95.50	75.00-125.00	0.00500	2.55	20.00
Beryllium	0.113	mg/L	0.100	112.80	75.00-125.00	0.000500U	0.71	20.00
Cadmium	0.103	mg/L	0.100	102.90	75.00-125.00	0.000200U	0.97	20.00
Chromium	0.0971	mg/L	0.100	97.10	75.00-125.00	0.00100U	4.14	20.00
Cobalt	0.0964	mg/L	0.100	96.40	75.00-125.00	0.00100U	4.07	20.00
Copper	0.0950	mg/L	0.100	91.20	75.00-125.00	0.00380	4.33	20.00
Lead	0.0948	mg/L	0.100	94.80	75.00-125.00	0.00100U	2.60	20.00
Nickel	0.0984	mg/L	0.100	98.40	75.00-125.00	0.00100U	3.89	20.00
Selenium	0.106	mg/L	0.100	106.10	75.00-125.00	0.00200U	4.96	20.00
Silver	0.0869	mg/L	0.100	86.90	75.00-125.00	0.000500U	1.82	20.00
Thallium	0.0851	mg/L	0.100	85.10	75.00-125.00	0.00100U	2.67	20.00
Vanadium	0.101	mg/L	0.100	101.40	75.00-125.00	0.00100U	3.30	20.00
Zinc	0.437	mg/L	0.100	95.40	75.00-125.00	0.342	2.89	20.00

Quality Control Batch: 10373173	Analyst: EVB	
Blank	**Result**	**Units**
Iron	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Iron	10.3	mg/L	10.0	103.34	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Iron	5.10	mg/L	5.00	101.35	75.00-125.00	0.0322

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	5.04	mg/L	5.00	100.25	75.00-125.00	0.0322	1.08	20.00

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Quality Control Batch: 10373177		
Blank	**Result**	**Units**
Total Hardness (as CaCO3)	0.100U	mg/L

Quality Control Batch: 10373184		
Blank	**Result**	**Units**
Chlorophyll a	0.0200U	ug/L

Quality Control Batch: 10373264	Analyst: EVB							
Blank	**Result**	**Units**						
Mercury	0.0247	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Mercury	0.00102	mg/L	0.00100	102.10	80.00-120.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Mercury	0.00303	mg/L	0.00300	100.96	80.00-120.00	0.00000220		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Mercury	0.00297	mg/L	0.00300	98.93	80.00-120.00	0.00000220	2.03	20.00

Quality Control Batch: 10373451	Analyst: PCW							
Blank	**Result**	**Units**						
TOC	1.00U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
TOC	10.7	mg/L	10.0	106.88	80.00-120.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		

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Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample		
TOC	29.8	mg/L	10.0	87.57	80.00-120.00	21.0		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
TOC	29.1	mg/L	10.0	80.95	80.00-120.00	21.0	2.25	20.00

Blank	Result	Units
Total Phosphorus(as P)	0.0400U	mg/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Total Phosphorus(as P)	1.51	mg/L	1.50	100.46	90.00-115.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
Total Phosphorus(as P)	1.67	mg/L	1.50	107.91	85.00-115.00	0.0540

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Total Phosphorus(as P)	1.68	mg/L	1.50	108.36	85.00-115.00	0.0540	0.40	20.00

Blank	Result	Units
TKN(as N)	0.200U	mg/L

Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
TKN(as N)	2.82	mg/L	3.00	93.86	90.00-110.00

Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**
TKN(as N)	3.31	mg/L	3.00	97.87	85.00-115.00	0.379

Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**

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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	3.32	mg/L	3.00	98.16	85.00-115.00	0.379	0.26	20.00
Quality Control Batch: 10373577	**Analyst: PCW**							
Blank	**Result**	**Units**						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Ammonia (as N)	2.08	mg/L	2.00	104.00	85.00-115.00			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Ammonia (as N)	1.54	mg/L	1.67	90.85	85.00-115.00	0.0228		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Ammonia (as N)	1.54	mg/L	1.67	90.85	85.00-115.00	0.0228	0.00	20.00
Quality Control Batch: 10373631	**Analyst: OKS**							
Blank	**Result**	**Units**						
BOD5day	2.00U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
BOD5day	220	mg/L	198	111.11	85.00-115.00			

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Date Sampled: May 23, 2018
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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.

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

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
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.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
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

- [X] **Flowers Chemical Laboratories, Inc.** 481 Newburyport Ave. Altamonte Springs, FL 32701 Bus: 407-339-5984 Fax: 407-260-6110
- [ ] **Flowers Chemical Labs-South** West Park Industrial Plaza 571 N.W. Mercantile Pl., Ste. 111 Port St. Lucie, FL 34986 Bus: 772-343-8006 Fax: 772-343-8089
- [ ] **Flowers Chemical Labs-North** 812 S.W. Harvey Greene Dr. Madison, FL 32340 Bus: 850-973-6878 Fax: 850-973-6878
- [ ] **Flowers Chemical Labs-Keys** 3980 Overseas Highway, Ste. 103 Marathon, FL 33050 Bus: 305-743-8598 Fax: 305-743-8598

FLOWERS CHEMICAL LABORATORIES INCORPORATED

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Client: Atkins North America

Address: 4030 W. Boy Scout Boulevard Suite 700, Tampa, FL 33607

Phone: 813-281-8377

Sampled By (PRINT): Bradley J. Bayne

Sampler Signature: [signature] Date Sampled: 5/23/2018

Project Name: Hardee Co. Landfill

Client Contact: Brad Bayne

FCL Project Manager: June Flowers

Requested Due Date: (10 Day Standard) OR MM DD YY

P.O. #: June has #

FAX: Project # 100052586

E-MAIL: bradleft.bayne@atkinsglobal.com

Rush Charges May Apply

Pick-Up Fee $ Vehicle Surcharge $ Sampling Fee $

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.	NONE	H_2SO_4	HNO_3	HCl	$Na_2S_2O_3$	Metals + Hard	8260	8011	Fecal Coliform	Chlorophyll a	TDS, TSS	BOD, NO3	TOC, Un-ion NH3, TN/TP/Cd	COMMENTS	Total # Containers
1	SW-2	5/23/18	11:00	SW	366686SW1	6	2	1	3	1	✓	✓	✓	✓	✓	✓	✓	✓	Run	
2	Trip Blank				" 2	1						✓							Hardee	
3																			LF List	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
[signature]	5/23/18	11:46	[signature]	5/23/18	11:46				[signature] / FCL	5/25	13:55

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• **WHITE** - Lab Copy - To Be Scanned • **YELLOW** - Client Copy

Rev 04-08

Flowers Chemical Laboratories

KIT REQUEST FORM

481 Newburyport Ave.
Altamonte Springs, FL 32701
Phone (407) 339-5984 Fax (407) 260-6110

FCL Project Manager: June Flowers

Total Containers	PARAMETERS	Containers per Sample	Matrix	Preservative: Methanol 10ml	Preservative: HNO3	Preservative: Zn(C2H3O2)/NaOH	Preservative: Na2S2O3	Preservative: H2SO4	Preservative: NaOH/Asc Acid	Preservative: MnSO4/ALK AZIDE	Preservative: HCL	Preservative: NH4CL	Plastic: 125 mL CLEAR	Plastic: 250 mL AMBER	Plastic: 250 mL CLEAR	Plastic: 500 mL CLEAR	Plastic: 1 L CLEAR	Plastic: Whirl Pak BAG	Plastic: Coli Bottle	Glass Containers: 40 mL vial	Glass Containers: 125 mL AMBER	Glass Containers: 250 mL AMBER	Glass Containers: 1 L CLEAR	Glass Containers: 1 L AMBER	Glass Containers: 4 L AMBER	Glass Containers: 4 oz Soil AMBER	Glass Containers: 8 oz Soil CLEAR		Glass Containers: 300 mL BOD Bottle
	Use Quicklist "LandfillSurfa																												
1	Metals+Hard	1	SW		X										X														
3	App I 8260	3	SW								X									X									
1	Fecal Col	1	SW																X										
1	Un-ion NH3/TN/TP/COD	1	SW					X							X														
1	TDS,TSS	1	SW														X												
1	BOD,NO3	1	SW														X												
1	Chlorophyll a	1	SW																					X					
3	EPA8011	3	SW																	X									
1	TOC	1	SW					X												X									

Ship To: Client #

Atkins - Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa FL 33707
ATTN: Bradley Bayne 727-424-6716

Date Ordered: 05/11/18

Date to be Shipped: 05/15/18

Date Needed: 05/17/18

Extra Coolers: ☐ (L) ☐ (M) ☐ (S)
Trip Blanks: 1 w/HCl ☐ w/o HCl
Custody Chain: 1 Env. ☐ DW
Temp Blank: ☐ Bailers: ☐

☐ Customer Pick Up:

Date: _____ Time: _____

SHIPPING METHOD

☒ STD. USP ☐ DHL Next Day
☐ Fed-Ex Flowers Account
☐ Fed-Ex Client Account #
☐ Other: _____

Project: HardeeLandfill
Location: Surface Water
Sampling Dates: 05-21-18

Special Notes:
Use Quicklist "LandfillSu
No Headspace in vials
Fecal Holdtime 6 hours!

Cooler ID
Hg, Fe,Al,Hardness is i

SAMPLE KIT ID: Return this with C

Thank You for Your Business