40612
6w
5w

PBS&J
An employee-owned company

January 15, 2010

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JAN 19 2010
SOUTHWEST DISTRICT TAMPA

Re: Review of Semi-Annual Sampling Results
Second Half 2009 Sampling Event
Hardee County Landfill
WACS Facility ID No. SWD/25/40612
Permit No. 38414-011-SO

Dear Mr. Morris:

On behalf of the Hardee County Solid Waste Department, PBS&J would like to present this review of the results of the second half 2009 sampling event at for the facility referenced above. This document is designed to comply with the requirements of Specific Condition E.10 of the facility's permit, and was compiled in general accordance with the guidelines promulgated in Chapter 62-701.510(9) (a) of the Florida Administrative Code (FAC).

BACKGROUND

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

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

Specific Condition E.9 of the permit calls for the collection of a leachate samples from two points - at Manhole 9 (Phase I0 and at the Phase II leachate collection/Detection riser. Those samples were collected annually and analyzed for the laboratory analytes listed in the referenced specific condition.

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

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

SECOND HALF 2009 SAMPLING EVENT

The second half 2009 sampling event was conducted in December 2009. The groundwater and surface water samples were collected on December 18 and 19, and the leachate samples were collected on December 28th. The samples were collected in general accordance with the FDEP's Standard Operating Procedure for Field Activities (SOP 001/01). A Florida Department of Environmental Protection (FDEP) Ground Water Monitoring Report form for the sampling event is provided in Attachment A.

SAMPLE COLLECTION METHODOLOGY

Prior to sampling the monitoring wells, each was purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of 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 all of 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.

The surface water sample and leachate samples were collected through polyethylene tubing using a peristaltic pump. The inlet to the tubing was placed at about mid-depth of the surface water body.

All of the samples were placed in laboratory-prepared containers, placed on ice, and carried to Flowers Chemical Laboratories, Inc. (FCL) for analysis of the analytes listed in the applicable specific conditions of the facility's permit. FCL is a NELAC-certified laboratory.

SAMPLING RESULTS

Groundwater Flow Pattern

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 south-southeasterly direction at the time of this sampling event. The water table gradient measured approximately 0.003 feet per foot beneath the site.

Sampling Results

A description of the detections in the groundwater and surface water is presented below. The leachate analytical results were not available at the time of the issuance of this report and will be forwarded under separate cover.

Groundwater Analytical Results

There were numerous inorganic analytes and one organic analyte detected in the groundwater samples. The inorganic analytes included all of those which are part of the analytical program except antimony, beryllium, cadmium, cobalt, lead, selenium, silver, and thallium. At least one inorganic analyte was detected at every well in the monitoring network. The only organic analyte that was detected in the network was toluene in the samples collected at wells MW-1 and MW-5.

The concentration of every analyte that was detected in the groundwater was compared to its Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated by Chapter 62-550 of the Florida Administrative Code (FAC). Not every parameter has an MCL or SDWS. Five inorganic analytes, including pH, nitrate, Total Dissolved Solids (TDS), arsenic, and iron, were detected at concentrations in excess of the regulatory criteria, or outside of the prescribed MCL range as is the case with pH.

The pH concentration was lower than the prescribed SDWS range at all of the wells, except MW-2 and MW-4. The nitrate concentration exceeded the standard at one well – MW-8. The TDS concentration also exceeded the standard at one well - MW-1. The arsenic concentrations at two wells, MW-1 and MW-4, slightly exceeded the standard. And the concentration of iron at MW-1, MW-2, MW-4, MW-5, and MW-10R exceeded the standard. A summary of the groundwater analytical results is presented in Table 2, and the laboratory analytical report is provided in Attachment C.

Surface Water Analytical Results

As with groundwater, most of the analytes that were detected in the surface water were the inorganic analytes, including nitrate, TDS, barium, and fecal coliform. The only organic analyte that was detected in the sample was methylene chloride. A summary of the surface water analytical results is presented in Table 3 along with the concentrations of total hardness, Total Organic Carbon (TOC), Biological Oxygen Demand (BOD), chlorophyll A, and Total Keldahl Nitrogen (TKN). The laboratory analytical report is provided in Attachment C.

The concentration of every analyte that was detected in the surface water was compared to the State surface water quality standards, and the DO level was lower than the target concentration. The surface water standards are promulgated by Chapter 62-302, FAC.

SUMMARY AND CONCLUSIONS

The results of the second half 2009 sampling event at the Hardee County Solid Waste Disposal Facility were consistent with those of the recent sampling events, with five inorganic analytes detected in the groundwater at concentrations in excess of the regulatory criteria. They included pH, nitrate, TDS, arsenic, and iron. All of these analytes except arsenic have secondary standards, and the arsenic concentrations were only slightly above the standard.

The only analyte that was not within standards in the surface water was DO.

Based on these findings, the facility does not appear to be having a significant effect on groundwater and surface water quality. PBS&J recommends that the analytical results in future sampling events be monitored closely for any developing trends.

If you have any questions regarding the information presented in this report, please call me at (407) 806-4339.

Very truly yours,

Greg Mudd, P.G.
Senior Geologist

CC: Ms. Teresa Carver, Hardee County Solid Waste Department, 685 Airport Road, Wauchula, FL 33873 (2 copies)
File, 100005742

TABLES

Table 1
Groundwater Elevation Data
Hardee County Landfill
Second Half 2009

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	4.11	83.86
MW-2	85.86	83.75	10.50	4	4.34	81.52
MW-4	87.16	84.09	18.90	2	5.29	81.87
MW-5	88.76	85.83	18.10	2	6.67	82.09
MW-8	88.98	85.80	13.50	2	7.22	81.76
MW-10R	88.56	85.49	15.12	2	6.92	81.64
MW-11	88.11	85.17	13.90	2	6.13	81.98
MW-12R	89.00	85.71	23.25	2	6.88	82.12
Piezometers						
MW-3	88.06	86.46	NA	2	6.78	81.28
MW-6	88.25	85.06	NA	2	6.32	81.93
MW-7	87.88	84.98	NA	2	6.26	81.62
P-1	90.57	86.47	NA	2	8.52	82.05
P-2	91.08	89.48	NA	2	9.25	81.83
P-7	84.47	82.41	NA	2	2.94	81.53
P-8	85.32	83.25	NA	2	5.82	79.50
P-11	88.69	86.16	NA	2	6.95	81.74
P-13	87.96	87.98	NA	2	6.04	81.92
P-14	87.31	84.05	NA	2	5.53	81.78
P-15	87.72	89.62	NA	2	7.83	79.89
P-17	88.82	85.88	NA	2	4.67	84.15
P-18	88.74	84.37	NA	2	5.21	83.53
P-19	86.73	84.14	NA	2	3.81	82.92
P-20	87.6	84.68	NA	2	4.9	82.70
P-21	86.63	83.57	NA	2	5.45	81.18
P-22	87.04	84.09	NA	2	5.64	81.40
P-23	86.45	83.71	NA	2	5.67	80.78

Table 2
Groundwater Analytical Summary
Hardee County Landfill
Second Half 2009

Analyte	Standard[1]	Units	Monitoring Well	MW-1	MW-2	MW-4	MW-5	MW-8	MW-10R	MW-11	MW-12R
			Sample Date:	12/15/2009	12/15/2009	12/15/2009	12/15/2009	12/15/2009	12/15/2009	12/15/2009	12/15/2009
Field Measurements											
Depth to Groundwater		ft		83.9	81.5	81.9	82.1	81.8	81.6	82	82.1
Temperature		deg. C		23.0	23.8	22.7	23.9	24.5	25.9	24.4	23.9
pH	6.5-8.5	STD		4.74	7.00	6.65	5.88	6.16	6.19	5.17	6.08
Conductivity		umhos/cm		391	667	437	243	285	127	95	203
Dissolved Oxygen (DO)		mg/l		0.640	1.81	0.49	0.100	1.44	0.59	0.7	0.880
Turbidity		NTU		2.90	1.6	2.8	2.94	5.02	1.2	68.3	17.9
Inorganics											
Nitrate (as N)	10	mg/l		0.126	0.0762	0.02	0.307	12.6	0.0215	2.68	5.32
TDS	500	mg/l		644	402	352	160	230	108	106	206
Chloride	250	mg/l		92.9	48.1	20.3	31.4	16	24.1	10.8	15.4
Antimony	0.006	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	0.01	mg/l		0.0108	BDL	0.017	0.00258	BDL	BDL	BDL	BDL
Barium	2	mg/l		0.0337	0.0416	0.0175	BDL	BDL	0.00413	0.0141	0.0105
Beryllium	0.004	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium	0.005	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	0.1	mg/l		0.00813	0.00269	0.00539	0.00208	BDL	0.00294	0.00531	0.00324
Cobalt		mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Copper	1	mg/l		0.00269	BDL	BDL	BDL	BDL	BDL	BDL	0.00213
Lead	0.015	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	0.1	mg/l		0.0127	0.00432	0.0031	BDL	BDL	BDL	0.00229	BDL
Selenium	0.05	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	0.1	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Thallium	0.002	mg/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vanadium		mg/l		0.0345	0.00272	0.0138	0.00531	0.0196	BDL	0.00373	0.00449
Zinc	5	mg/l		BDL	BDL	BDL	BDL	0.096	BDL	BDL	0.124
Ammonia (as N)		mg/l		0.119	0.0566	1.52	0.131	BDL	0.0219	BDL	BDL
Iron	0.3	mg/l		11.7	4.48	10.9	1.53	0.0351	4.94	0.143	0.104
Sodium	160	mg/l		29.5	43.5	11.2	10.1	6.06	9.73	9.78	6.91
Organics											
1,1,1,2-Tetrachloroethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone (MEK)		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone		ug/l		BDL	BDL	10.5	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Disulfide		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	3	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl Iodide		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl isobutyl ketone		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene chloride		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Para-dichlorobenzene	75	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	1000	ug/l		28.3	BDL	2.2	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Acetate		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Xylenes	10000	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Dichlorobenzene	600	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3,-Dichloropropene		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,4-Dichloro-2-butene		ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

[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.

BDL = Below Detection Limits (detection limits lower than referenced standard unless otherwise noted)

Table 3
Surface Water Analytical Summary
Hardee County Landfill
Second Half 2009

Analyte	Standard(1)	Location:	SW 2
		Sample Identifier:	SW 2
		Date of Test:	12/14/09
		Units	
Field Measurements			
Temperature		deg. C	21.4
pH	6-8.5	STD	6.78
Conductivity	1275	umhos/cm	310
Dissolved Oxygen (DO)	>5	mg/1	3.83
Turbidity	29+	NTU	0.950
Inorganics			
Unionized ammonia (as N)	20	mg/L	0.000220
Nitrate (as N)		mg/L	0.0747
Total Dissolved Solids (TDS)		mg/L	304
Antimony	4300	mg/L	BDL
Arsenic	50	mg/L	BDL
Barium		mg/L	0.00746
Beryllium	0.13	mg/L	BDL
Cadmium	2.78[2]	mg/L	BDL
Chromium	219.9[3]	mg/L	BDL
Cobalt		mg/L	BDL
Copper	24.8[4]	mg/L	BDL
Lead	13.6[5]	mg/L	BDL
Nickel	137.3[6]	mg/L	BDL
Selenium	5	mg/L	BDL
Silver	0.07	mg/L	BDL
Thallium	6.3	mg/L	BDL
Vanadium		mg/L	BDL
Zinc	315.9[7]	mg/L	BDL
Fecal coliform	800	cfu/100mL	45
Total Hardness (as CaCO3)		mg/L	116
Total Organic Carbon (TOC)		mg/L	23.9
Biological Oxygen Demand (BOD)		mg/l	6.60
Chlorophyll A		mg/m3	BDL
Total Keldahl Nitrogen (TKN) (as N)		mg/l	1.82
Organics			
1,1,1,2-Tetrachloroethane		ug/l	BDL
1,1,1-Trichloroethane		ug/l	BDL
1,1,2,2-Tetrachloroethane	10.8	ug/l	BDL
1,1,2-Trichloroethane		ug/l	BDL
1,1-Dichloroethane		ug/l	BDL
1,1-Dichloroethene	3.2	ug/l	BDL
1,2-Dichloroethane		ug/l	BDL
1,2-Dichloropropane		ug/l	BDL
2-Butanone (MEK)		ug/l	BDL
2-Hexanone		ug/l	BDL
Acetone		ug/l	BDL

Analyte	Location:		SW-2
	Sample Identifier:		SW-2
		Date of Test:	12/14/09
	Standard(1)	Units	
Acrylonitrile		ug/l	BDL
Benzene	71.28	ug/l	BDL
Bromochloromethane		ug/l	BDL
Bromodichloromethane	22	ug/l	BDL
Bromoform		ug/l	BDL
Bromomethane		ug/l	BDL
Carbon disulfide		ug/l	BDL
Carbon tetrachloride	4.42	ug/l	BDL
Chlorobenzene		ug/l	BDL
Chloroethane		ug/l	BDL
Chloroform		ug/l	BDL
Chloromethane	470.8	ug/l	BDL
Dibromochloromethane		ug/l	BDL
Dibromomethane		ug/l	BDL
Ethylbenzene		ug/l	BDL
Methyl iodide		ug/l	BDL
Methyl isobutyl ketone		ug/l	BDL
Methylene chloride		ug/l	4.06
Para-dichlorobenzene		ug/l	BDL
Styrene		ug/l	BDL
Tetrachloroethene		ug/l	BDL
Toluene		ug/l	BDL
Trichloroethene	80.7	ug/l	BDL
Trichlorofluoromethane		ug/l	BDL
Vinyl Acetate		ug/l	BDL
Vinyl chloride		ug/l	BDL
Xylenes		ug/l	BDL
cis-1,2-Dichloroethene		ug/l	BDL
cis-1,3-Dichloropropene		ug/l	BDL
o-Dichlorobenzene		ug/l	BDL
trans-1,2-Dichloroethene		ug/l	BDL
trans-1,3,-Dichloropropene		ug/l	BDL
trans-1,4-Dichloro-2-butene		ug/l	BDL

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nepholometric turbidity units; mg/m^3 - milligrams per cubic meter.

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level. Lowest value of hardness was 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)

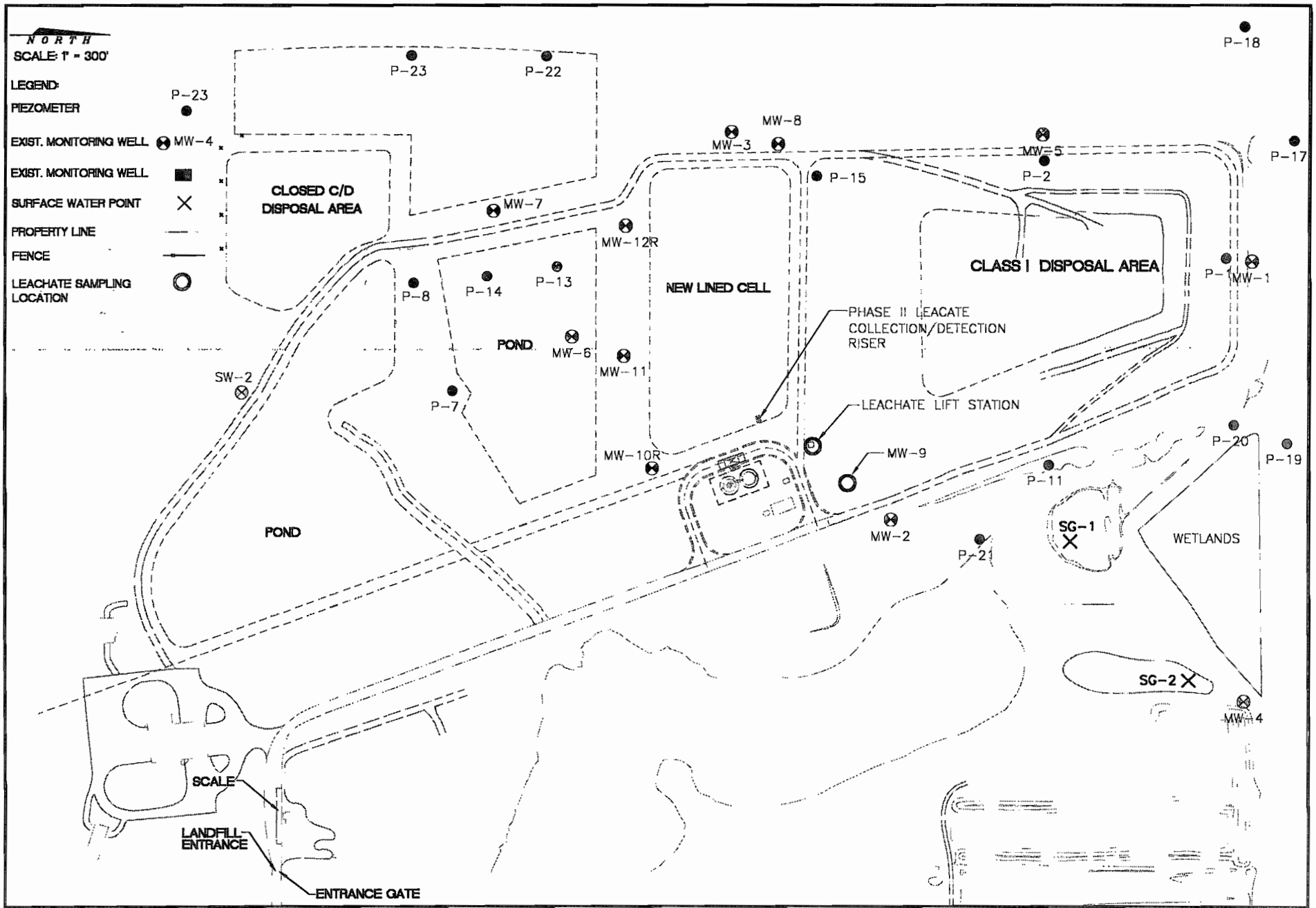
(4) Cu less than or equal to e(0845(InH)-1.702)

(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)

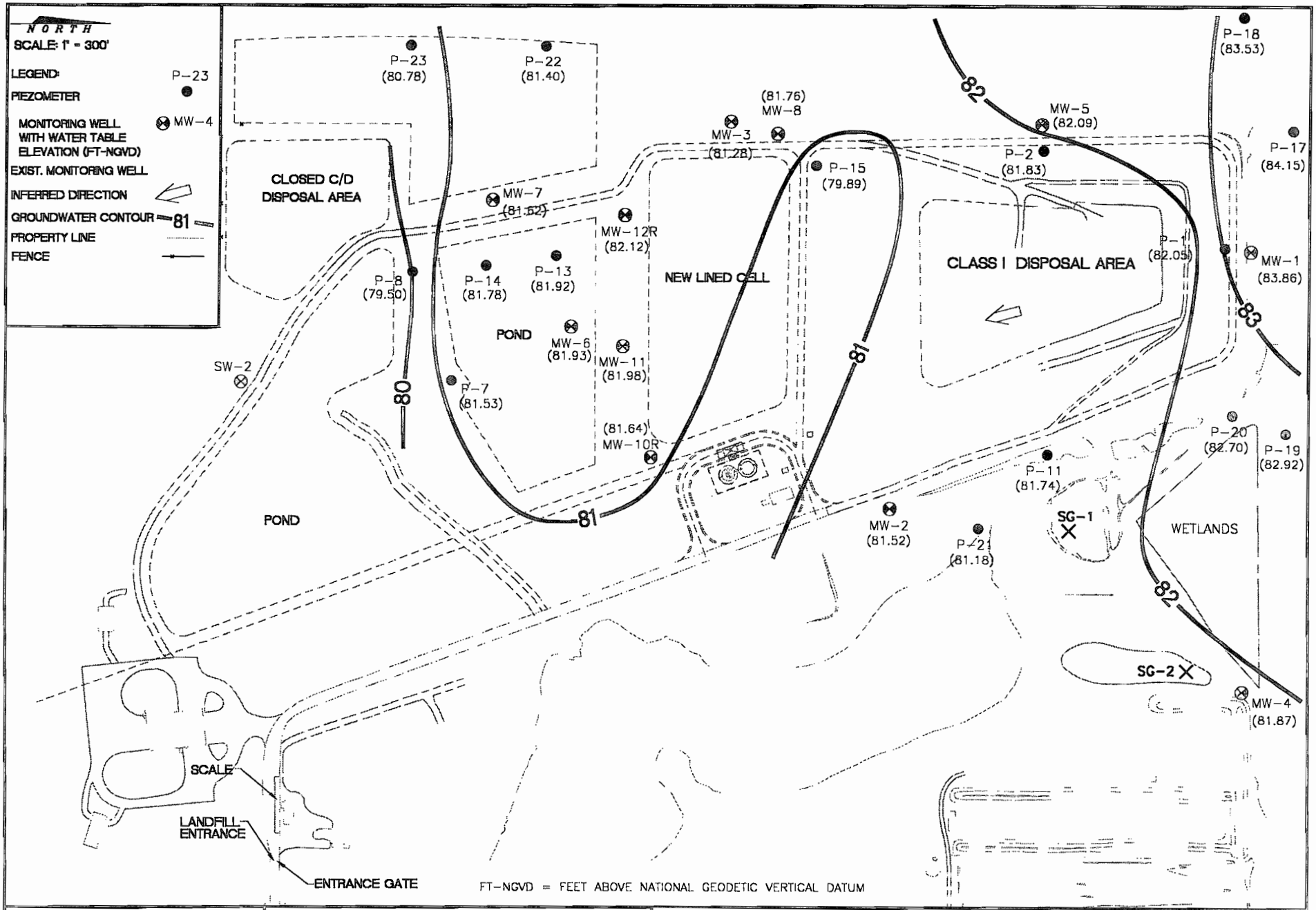
(7) Zn less than or equal to e(0.8473(InH)+0.884)

FIGURES



PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.	HARDEE COUNTY LANDFILL	MONITORING POINTS	FIGURE 1

U:\SO\OldG\HAZARD\Hardee County\Water Quality Monitoring Program\Second half 2009\FIG-1_MONITORING POINTS.dwg Jan 13, 2010 - 3:40pm



FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

PBSJ POST, BUCKLEY, SCHUH & JERNIGAN, INC.	HARDEE COUNTY LANDFILL	WATER TABLE ELEVATION CONTOUR MAP SECOND HALF 2009	FIGURE 2

U:\SO\Old\HAZARD\Hardee County\Water Quality Monitoring Program\Second half 2009\FIG-2_WATER TABLE ELEVATION - CONTOUR MAP-SECOND HALF 2009.dwg Jan 13, 2010 - 10:05am

ATTACHMENT A

Ground Water Monitoring Report Form

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date

DEP Application No.

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Hardee County Solid Waste Disposal Facility

Address 685 Airport Road

City Wachula, Florida Zip 33873

Telephone Number (863) 733-5089

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

(2) The GMS Identification Number 4025C30001

JAN 19 2010

(3) DEP Permit Number 38414-007-SO

SOUTHWEST DISTRICT TAMPA

(4) Authorized Representative Name Greg Mudd, P.G., PBS&J

Address 482 Keller Road

City Orlando, Florida Zip 32810

Telephone Number (407) 806-4339

(5) Type of Discharge N/A

(6) Method of Discharge N/A

Certification

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

Date: 1/13/2010 Greg Mudd, PBSJ AS AGENT FOR HARDEE COUNTY

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # PBS&J

Analytical Lab Comp QAP # /HRS Certification # E83018

*Comp QAP # /HRS Certification #

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

Lab #2

Phone Number (407) 339-5984

PART III ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: December 2009

Test Site ID #: _____ Report Period: Second Half 2009
(year/quarter)

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

Classification of Ground Water: _____ Well Type: ( ) Background
( ) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): _____

or (MSL): _____

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

* Attach Laboratory Reports

ATTACHMENT B

Groundwater Sampling Logs and Field Equipment Calibration Logs

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: PRSJ	SITE LOCATION: Hardee County Landfill	
WELL NO: MW-12R	SAMPLE ID: MW-12R	DATE: 12/5/09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.88	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (23.04 feet − 6.88 feet) X 0.026 (0.64) gallons/foot = 2.59 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12'	PURGING INITIATED AT: 10:13	PURGING ENDED AT: 10:50	TOTAL VOLUME PURGED (gallons): 10.26

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:13	—	—	—	6.88					Cloudy	Tan	NONE
10:23	2.75	2.75	0.28	8.97	6.01	23.8	207	1.02	49		
10:26	0.84	3.59	0.28	8.99	6.04	23.9	207	0.98	49		
10:29	0.84	4.43	0.28	8.99	6.05	23.9	207	0.96	36		
10:39	2.75	7.18	0.28	8.99	6.05	23.9	203	0.86	22		
10:44	1.40	8.58	0.28	9.00	6.06	23.9	203	0.87	19.7		
10:47	0.84	9.42	0.28	9.00	6.08	23.9	203	0.88	18.4		
10:50	0.84	10.26	0.28	9.01	6.08	23.9	203	0.88	17.9	Clear	
											NONE

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./FL): 1/8" = 0.0005; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Robert Carpenter FCL	SAMPLER(S) SIGNATURES: Robert Carpenter	SAMPLING INITIATED AT: 10:52	SAMPLING ENDED AT: 10:55
PUMP OR TUBING DEPTH IN WELL (feet): 12'	SAMPLE PUMP FLOW RATE (mL per minute): 214 ml/m	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
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
MW-12R	7					6.08		PP
			SEE COC					

REMARKS:

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

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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 2200-1) optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: PBSJ	SITE LOCATION: Hardee County Landfill	
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 12/15/09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.13	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) 0.31
= (13.90 feet − 6.13 feet) X 0.16 gallons/foot = 1.24 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10'	PURGING INITIATED AT: 11:10	PURGING ENDED AT: 11:35	TOTAL VOLUME PURGED (gallons): 6.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	SHEEN ODOR (describe)
11:10	—	—	—	6.13						(Clay White)	
11:15	1.25	1.25	0.25	7.20	5.24	24.1	102	2.17	330		NONE
11:20	1.25	2.50	0.25	7.20	5.08	24.3	100	1.03	334		
11:25	1.25	3.75	0.25	7.20	5.12	24.3	97	0.91	187		
11:30	1.25	5.00	0.25	7.21	5.13	24.3	92	0.77	83		
11:35	1.25	6.25	0.25	7.21	5.17	24.4	95	0.70	68.3		
											NONE
Purged 5 Well Volumes Prior to Sampling											

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Robert Carpenter FCL	SAMPLER(S) SIGNATURES: Robert Carpenter	SAMPLING INITIATED AT: 11:37	SAMPLING ENDED AT: 11:40
PUMP OR TUBING DEPTH IN WELL (feet): 10'	SAMPLE PUMP FLOW RATE (mL per minute): 200 ml/min	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-11	7					5.17		PP
				SEE COC				

REMARKS:

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

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

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

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

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

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Landfill	SITE LOCATION: Hardee Co.	
WELL NO: MW-10K	SAMPLE ID: MW-10K	DATE: 12/15/09

PURGING DATA

WELL DIAMETER (inches): 2.00	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.92	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (23.08 feet – 6.92 feet) X .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): 20.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20.00	PURGING INITIATED AT: 1153	PURGING ENDED AT: 1212	TOTAL VOLUME PURGED (gallons): 4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1205	2.75	2.75	0.22	7.18	5.31	25.9	128.4	0.62	2.80	none	none
1209	0.75	3.50	0.22	7.18	5.28	25.9	125.1	0.68	2.40	1	1
1212	0.75	4.25	0.22	7.18	5.19	25.9	127.3	0.59	1.20	1	1

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Tommy Cross / FGL	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1215	SAMPLING ENDED AT: 1220
PUMP OR TUBING DEPTH IN WELL (feet): 20.00	SAMPLE PUMP FLOW RATE (mL per minute): 716	TUBING MATERIAL CODE: S+PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

See C.O.C.

REMARKS:

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

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

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

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

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

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: PBSJ	SITE LOCATION: Hardee County Landfill	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 12/15/09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 7.22	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.15 feet − 7.22 feet) X 0.16 gallons/foot = 0.95 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): 10.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	PURGING INITIATED AT: 09:31	PURGING ENDED AT: 09:44	TOTAL VOLUME PURGED (gallons): 1.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	~~ODOR~~ Sheen (describe)
09:31	–	–	–	7.22							
09:38	1.00	1.00	0.14	9.78	6.15	24.5	292	1.45	5.36	Clear	NONE
09:41	0.42	1.42	0.14	9.79	6.15	24.5	289	1.45	5.12		
09:44	0.42	1.84	0.14	9.79	6.16	24.5	285	1.44	5.02		
										Clear	NONE

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./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0025; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: FCL Robert Carpenter	SAMPLER(S) SIGNATURES: Robert Carpenter	SAMPLING INITIATED AT: 09:46	SAMPLING ENDED AT: 09:50
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	SAMPLE PUMP FLOW RATE (mL per minute): 200 mL/min	TUBING MATERIAL CODE: PP	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-8	7					6.16		PP
		SEE COC						

REMARKS: Heavy Equipment Operating Near By

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

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

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

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

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

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: PBSJ		SITE LOCATION: Hardee County Landfill	
WELL NO: MW-5	SAMPLE ID: MW-5		DATE: 12/15/09

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.67	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY 0.88
(only fill out if applicable)
= (28.75 feet − 6.67 feet) X 0.16 gallons/foot = 3.53 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):
15'	15'	08:46	09:02	5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	SHEEN (describe)
08:46	—	—	—	6.67							
08:56	3.75	3.75	0.38	7.22	5.93	23.8	262	0.15	3.87	Clear	NONE
08:59	0.84	4.89	0.38	7.23	5.89	23.9	243	0.12	3.43		
09:02	1.14	5.03	0.38	7.23	5.88	23.9	243	0.10	2.94		
										Clear	NONE

1.14

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Robert Carpenter FCL	SAMPLER(S) SIGNATURES: Robert Carpenter	SAMPLING INITIATED AT: 09:04	SAMPLING ENDED AT: 09:08
PUMP OR TUBING DEPTH IN WELL (feet): 15'	SAMPLE PUMP FLOW RATE (mL per minute): 44 mL/min	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
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
MW-5	7					5.88		PP
		SEE		COC				

REMARKS:

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

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

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

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

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

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Landfill	SITE LOCATION:	Hardee Co.
WELL NO:	MW-4	SAMPLE ID:	MW-4
DATE:	12/15/09		

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:
2.00	0.25		5.29	RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (21.75 feet − 5.29 feet) X .16 gallons/foot = 2.63 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):
11.00	11.00	0858	0919	4.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or mS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0910	2.75	2.75	0.20	5.68	6.54	22.8	430	0.47	3.60	Yellow Tint	none
0914	0.75	3.50	0.20	5.68	6.60	22.7	431	0.57	2.50	1	1
0919	0.75	4.25	0.20	5.68	6.65	22.7	437	0.49	2.80	1	1

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Tommy Cross / FGL		0925	0930

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOWRATE (mL per minute):	TUBING MATERIAL CODE:
11.00	216	STPE

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
				See C.O.C.				

REMARKS:

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

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

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

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

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

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Lundt #11	SITE LOCATION:	Hardee Co.
WELL NO:	MW-2	SAMPLE ID:	MW-2
DATE:	12/15/09		

PURGING DATA

WELL DIAMETER (inches): 4.00 ~~2.00~~	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.34	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.10 feet – 4.34 feet) X .65 gallons/foot = 5.69 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): 11.00	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.00	PURGING INITIATED AT: 0943	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 13.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/l or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1003	5.75	5.75	0.27	10.76	6.99	23.6	627	1.10	8.00	none	none
1008	1.50	7.25	0.27	10.76	6.95	23.7	611	1.60	11.00		
1015	1.50	8.75	0.27	10.76	7.05	23.8	587	1.57	12.00		
1021	1.50	10.25	0.27	10.76	7.05	23.8	637	1.63	6.60		
1027	1.50	11.75	0.27	10.76	7.00	23.8	661	1.75	4.20		
1032	1.50	13.25	0.27	10.76	7.00	23.8	667	1.81	1.60		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Tommy Cross/FGL		1035	1040

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
11.00	714	STPE

FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
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
			#See C.O.C #					

REMARKS:

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

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

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

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME:	Landfill	SITE LOCATION:	Hardee Co.	
WELL NO:	MW-1	SAMPLE ID:	MW-1	DATE: 12/15/09

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:
4.00	0.25		4.11	RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (12.70 feet – 4.11 feet) X .65 gallons/foot = 5.58 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):
11.00	11.00	1057	1136	11.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1115	5.75	5.75	0.30	8.23	5.33	23.6	339	0.67	10.00	Brown Tint	None
1121	1.50	7.25	0.30	8.23	4.95	23.2	362	0.70	6.90		
1127	1.50	8.75	0.30	8.23	4.93	23.1	383	0.81	3.80		
1132	1.50	10.25	0.30	8.23	4.78	23.0	390	0.63	2.90		
1136	1.50	11.75	0.30	8.23	4.74	23.0	391	0.64	2.90		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Tommy Cross/FCL		1140	1145

PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE:
11.00	214	SHPE

FIELD DECONTAMINATION: (Y) N
FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____
DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

See C.O.C.

REMARKS:

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

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; 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 DATA SHEET

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Sampler(s) Tommy Cross Date 12/15/09 Page 1 of 5

Project Name Hardee County Landfill S/A MW's

Sample Type	WW	SW	GW	DW	Reag.Wtr.	Sludge	Sediment	Soil	Other

Sample Site Indentification MW-4, MW-2, MW-1, MW-10R

Sampling Method	Grab ☐	Composite ☐	Monitoring Well ☑	Bailer ☐	Pump ☑

Sampling Equipment Geotech II peristaltic pump, Polyethelene + Silicon Tubing

Site & Weather Conditions Warm + clear

Field Instrument Beginning Calibration

											Slope
pH Meter	YES	☑	NO		Buffer	4.0	4.00	7.0	7.00	10.0	10.06
Conductivity Meter	YES	☑	NO		Buffer	147		~~1000~~ 1414	997	12900	
Turbidity Meter	YES	☑	NO		Buffer	0.5		~~10~~ 5.0	10	40	
DO Meter	YES	☑	NO		Buffer	99.2% saturation		Adjust		From	

Field Filtered ☐ YES ☑ ~~NO~~ Duplicate ☐ YES ☑ ~~NO~~ Field Decontamination ☑ ~~YES~~ ☐ NO

Parameter	Sample Containers	pH Check
☑ ~~Nutrient~~	Plastic - H_2SO_4	< 2
☑ ~~Metals~~	Plastic - HNO_3	< 2
☐ Sulfide	Plastic - NaDH / Zn Acetate	< 12
☐ Cyanide	Plastic - NaDH / Zn (No sulfide)/Ascorbic Acid	> 12
☐ Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res)	
☐ Oil & Grease	Glass - HCl	< 2
☐ TOC	Plastic - HCl	< 2
☑ ~~VOA~~	Glass - HCl	< 2
☐ SVOC	Glass - HCl (DW NO Chlorine Res)	
☐ Phenols	Glass - H_2SO_4	< 2
☑ ~~Other~~	Unpreserved	

Well Diameter	Multiplier
1.5 inches	0.092
2.0 inches	0.163
4.0 inches	0.653
6.0 inches	1.469

Field Instrument Ending Calibration

pH Meter	YES	☑	NO		Buffer	4.0		7.0	7.05	10.0	
Conductivity Meter	YES	☑	NO		Buffer	147		~~1413~~ 1414	1011	12900	
Turbidity Meter	YES	☑	NO		Buffer	0.5		~~10~~ 5.0	10	20.0	
DO Meter	YES	☑	NO		Buffer	98.9% saturation		Adjust		From	

General Site Information / Comments

FIELD DATA SHEET

FLOWERS CHEMICAL LABORATORIES INCORPORATED

Sampler(s) Robert Carpenter Date 12/15/09 Page 1 of 5

Project Name PRSJ

Sample Type	WW	SW	(GW)	DW	Reag.Wtr.	Sludge	Sediment	Soil	Other

Sample Site Indentification Hardee County Land Fill

Sampling Method	Grab ☐	Composite ☐	Monitoring Well ☒	Bailer ☐	Pump ☐

Sampling Equipment PP

Site & Weather Conditions Partly Cloudy

Field Instrument Beginning Calibration 08:50

											Slope
pH Meter	(YES)		NO		Buffer	4.0	4.01	7.0	7.01	10.0	10.02
Conductivity Meter	(YES)		NO		Buffer	100	100	1000	1007		
Turbidity Meter	(YES)		NO		Buffer	1.0	1.0	10.0	10.0		
DO Meter	(YES)		NO	Sat=99.7% @ 22.1°C @1001							

Field Filtered ☐ YES ☐ NO Duplicate ☐ YES ☐ NO Field Decontamination ☐ YES ☐ NO

Parameter	Sample Containers	pH Check
☐ Nutrient	Plastic - H_2SO_4	< 2
☑ Metals	Plastic - HNO_3	< 2
☐ Sulfide	Plastic - NaDH / Zn Acetate	< 12
☐ Cyanide	Plastic - NaDH / Zn (No sulfide)/Ascorbic Acid	> 12
☐ Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res)	
☐ Oil & Grease	Glass - HCl	< 2
☐ TOC	Plastic - HCl	< 2
☑ VOA	Glass - HCl	< 2
☐ SVOC	Glass - HCl (DW NO Chlorine Res)	
☐ Phenols	Glass - H_2SO_4	< 2
☑ Other	Unpreserved MOSQUITOS	

Well Diameter	Multiplier
1.5 inches	0.092
2.0 inches	0.163
4.0 inches	0.653
6.0 inches	1.469

Field Instrument Ending Calibration 11:45

											Slope
pH Meter	(YES)		NO		Buffer	4.0		7.0	7.01	10.0	
Conductivity Meter	(YES)		NO		Buffer	100		1000	1007		
Turbidity Meter	(YES)		NO		Buffer	1.0		10.0	10.0		
DO Meter	(YES)		NO	Sat 99.8% 24.1°C @1001							

General Site Information / Comments

ATTACHMENT C

Groundwater and Surface Water Analytical Report

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

January 13, 2010 11:35 AM EDT
Welcome, Greg Mudd!
PBS&J
Log Out

Analytical Report

Go More Reports

Summary

Client	PBS&J 482 South Keller Rd Orlando, FL 32810	**Date Sampled**	Dec 15, 2009
		Date Received	Dec 15, 2009
		Date Reported	Jan 06, 2010
		FLDOH #	E83018 (Main Lab)
PO Number	40612	**FLDOH #**	E86562 (South Lab)
Project Number	Hardee County Region Landfill	**NYSDOH #**	11595
Invoice Number	112532	**CTDPH #**	173
		NJDEP #	FL015
		UTDOH #	FLOW

Laboratory Number	Sample Description	Analyses	Chemist	Location	Sample Matrix
112532GW1	300/MW-5	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW2	19255/MW-8	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW3	22931/MW-12R	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW4	21882/MW-11	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW5	299/MW-4	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	

		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW6	297/MW-2	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW7	296/MW-1	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW8	22930/MW-10R	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM4500-Cl E	VLB	Main Lab	
112532GW9	Trip Blank	EPA8260	CLS	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.

Analysis Report

Sample Description 300/MW-5
Laboratory Number 112532GW1 **Date Sampled** Dec 15, 2009 09:04 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	0.307	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:36 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00258	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.00330 I	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00208	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00112 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.00531	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0100 U	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
TDS	160	mg/L	1.00	2.50	10140785	SM2540 C	12/21/09
Iron	1.53	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	10.1	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.131	mg/L	1.00	0.0100		EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	99.90%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	99.97%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	95.83%		1.00	0.0100	10140876	EPA8260	12/22/09
Chloride	31.4	mg/L	1.00	4.00	10140919	SM4500-Cl E	12/22/09
Field Ground Water Elevation	82.1	ft	1.00	-10.0			12/15/09
Field pH (units)	5.88	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	243	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	23.9	oC	1.00	0.100		FT1400	12/15/09
Field DO	0.100	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	2.94	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 19255/MW-8
Laboratory Number 112532GW2 **Date Sampled** Dec 15, 2009 09:46 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	12.6	mg/L	10.0	0.100	10140355	EPA353.2	12/16/09 01:54 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.00330 I	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00191 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00140 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00187 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.0196	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0960	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
TDS	230	mg/L	1.00	2.50	10140785	SM2540 C	12/21/09
Iron	0.0351 V	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	6.06	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100		EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	96.80%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	101.83%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	97.20%		1.00	0.0100	10140876	EPA8260	12/22/09
Chloride	16.0	mg/L	1.00	4.00	10140919	SM4500-Cl E	12/22/09
Field Ground Water Elevation	81.8	ft	1.00	-10.0			12/15/09
Field pH (units)	6.16	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	285	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	24.5	oC	1.00	0.100		FT1400	12/15/09
Field DO	1.44	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	5.02	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 22931/MW-12R
Laboratory Number 112532GW3 **Date Sampled** Dec 15, 2009 10:52 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	5.32	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:38 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.0105	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00324	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00213	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00188 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.00449	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.124	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
TDS	206	mg/L	1.00	2.50	10140785	SM2540 C	12/21/09
Iron	0.104 V	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	6.91	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.0145 I	mg/L	1.00	0.0100		EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	102.10%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	100.90%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	96.27%		1.00	0.0100	10140876	EPA8260	12/22/09
Chloride	15.4	mg/L	1.00	4.00	10140919	SM4500-Cl E	12/22/09
Field Ground Water Elevation	82.1	ft	1.00	-10.0			12/15/09
Field pH (units)	6.08	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	203	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	23.9	oC	1.00	0.100		FT1400	12/15/09
Field DO	0.880	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	17.9	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 21882/MW-11
Laboratory Number 112532GW4 **Date Sampled** Dec 15, 2009 11:37 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	2.68	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:39 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.0141	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00531	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00229	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.00373	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0100 U	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
Iron	0.143 V	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	9.78	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100		EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	99.10%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	101.77%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	94.93%		1.00	0.0100	10140876	EPA8260	12/22/09
TDS	106	mg/L	1.00	2.50	10140885	SM2540 C	12/22/09
Chloride	10.8	mg/L	1.00	4.00	10140920	SM4500-Cl E	12/22/09
Field Ground Water Elevation	82.0	ft	1.00	-10.0			12/15/09
Field pH (units)	5.17	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	95.0	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	24.4	oC	1.00	0.100		FT1400	12/15/09
Field DO	0.700	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	68.3	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 299/MW-4
Laboratory Number 112532GW5 **Date Sampled** Dec 15, 2009 09:25 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	0.0200	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:40 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.0107	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.0175	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00539	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00310	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.0138	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0100 U	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
Iron	10.9	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	11.2	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	1.52	mg/L	1.00	0.0100		EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	10.5	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	2.20	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	100.87%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	98.83%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	94.40%		1.00	0.0100	10140876	EPA8260	12/22/09
TDS	352	mg/L	1.00	2.50	10140885	SM2540 C	12/22/09
Chloride	20.3	mg/L	1.00	4.00	10140920	SM4500-Cl E	12/22/09
Field Ground Water Elevation	81.9	ft	1.00	-10.0			12/15/09
Field pH (units)	6.65	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	437	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	22.7	oC	1.00	0.100		FT1400	12/15/09
Field DO	0.490	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	2.80	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 297/MW-2
Laboratory Number 112532GW6 **Date Sampled** Dec 15, 2009 10:35 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	0.0762	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:41 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00140 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.0416	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00269	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00432	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.00272	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0100 U	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
Iron	4.48	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	43.5	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.0566	mg/L	1.00	0.0100	10140859	EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	97.93%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	101.10%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	95.5 %		1.00	0.0100	10140876	EPA8260	12/22/09
TDS	402	mg/L	1.00	2.50	10140885	SM2540 C	12/22/09
Chloride	48.1	mg/L	3.00	12.0	10140920	SM4500-Cl E	12/22/09
Field Ground Water Elevation	81.5	ft	1.00	-10.0			12/15/09
Field pH (units)	7.00	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	667	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	23.8	oC	1.00	0.100		FT1400	12/15/09
Field DO	1.81	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	1.60	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 296/MW-1
Laboratory Number 112532GW7 **Date Sampled** Dec 15, 2009 11:40 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	0.126	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:42 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.0108	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.0337	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00813	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00199 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00269	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.0127	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.0345	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0100 U	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
Iron	11.7	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	29.5	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.119	mg/L	1.00	0.0100	10140859	EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	9.07 I	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	28.3	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	101.03%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	100.17%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	95.37%		1.00	0.0100	10140876	EPA8260	12/22/09
TDS	644	mg/L	1.00	2.50	10140885	SM2540 C	12/22/09
Chloride	92.9	mg/L	1.00	4.00	10140920	SM4500-Cl E	12/22/09
Field Ground Water Elevation	83.9	ft	1.00	-10.0			12/15/09
Field pH (units)	4.74	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	391	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	23.0	oC	1.00	0.100		FT1400	12/15/09
Field DO	0.640	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	2.90	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description 22930/MW-10R
Laboratory Number 112532GW8 **Date Sampled** Dec 15, 2009 12:15 PM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Nitrate(as N)	0.0215	mg/L	1.00	0.0100	10140355	EPA353.2	12/16/09 01:46 PM
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00190 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.00413	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00294	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00134 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.00119 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0100 U	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
Iron	4.94	mg/L	1.00	0.0100	10140805	EPA6010	12/21/09
Sodium	9.73	mg/L	1.00	0.500	10140805	EPA6010	12/21/09
Ammonia (as N)	0.0219	mg/L	1.00	0.0100	10140859	EPA350.1	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	99.20%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	101.57%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	95.37%		1.00	0.0100	10140876	EPA8260	12/22/09
TDS	108	mg/L	1.00	2.50	10140885	SM2540 C	12/22/09
Chloride	24.1	mg/L	1.00	4.00	10140920	SM4500-Cl E	12/22/09
Field Ground Water Elevation	81.6	ft	1.00	-10.0			12/15/09
Field pH (units)	5.19	pH	1.00	0.0100		FT1100	12/15/09
Field Conductivity	127	umhos/cm	1.00	0.100		FT1200	12/15/09
Field Temp. (C)	25.9	oC	1.00	0.100		FT1400	12/15/09
Field DO	0.590	mg/L	1.00	0.100		FT1500	12/15/09
Field Turbidity	1.20	NTU	1.00	0.100		FT1600	12/15/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10141667	EPA8011	12/22/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10141667	EPA8011	12/22/09

Sample Description Trip Blank
Laboratory Number 112532GW9 **Date Sampled** Dec 15, 2009 12:00 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140876	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140876	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140876	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140876	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09

Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140876	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140876	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140876	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140876	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (151-254%)	99.67%		1.00	0.0100	10140876	EPA8260	12/22/09
Surr:Bromofluorobenzene (107-302%)	101.63%		1.00	1.00	10140876	EPA8260	12/22/09
Surr:Toluene-d8 (172-215%)	95.53%		1.00	0.0100	10140876	EPA8260	12/22/09

Quality Control Report

QC Batch 10140355 **Analyst:** PCW

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

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Nitrate(as N)	2.35	2.00	117.50	80.00-120.00	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Nitrate(as N)	4.27	4	0.0160	106.35	80.00-120.00	mg/L

Matrix Spike Duplicate	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**RPD**	**RPD Limit**	**Units**
Nitrate(as N)	4.15	4.00	0.0160	103.35	80.00-120.00	2.85	20.00	mg/L

QC Batch 10140426 **Analyst:** EVB

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

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Antimony	0.196	0.200	98.03	76.70-120.39	mg/L
Arsenic	0.206	0.200	102.88	81.09-119.32	mg/L
Barium	0.202	0.200	101.14	84.59-125.11	mg/L
Beryllium	0.212	0.200	106.06	85.69-132.22	mg/L
Cadmium	0.202	0.200	101.15	84.66-121.81	mg/L
Chromium	0.210	0.200	105.02	87.00-122.96	mg/L
Cobalt	0.205	0.200	102.34	78.66-126.98	mg/L
Copper	0.215	0.200	107.53	84.08-122.69	mg/L
Lead	0.204	0.200	101.81	86.91-124.18	mg/L
Nickel	0.205	0.200	102.39	77.31-126.31	mg/L
Selenium	0.214	0.200	107.17	75.98-121.42	mg/L
Silver	0.223	0.200	111.48	79.76-119.92	mg/L
Thallium	0.194	0.200	97.07	80.95-125.84	mg/L
Vanadium	0.209	0.200	104.53	78.51-125.51	mg/L
Zinc	0.205	0.200	102.43	79.82-122.80	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Antimony	0.0946	0.1	0.00200U	94.63	73.48-142.27	mg/L
Arsenic	0.0907	0.1	0.00183	88.90	73.05-140.45	mg/L
Barium	0.102	0.1	0.00857	93.14	70.68-156.87	mg/L
Beryllium	0.100	0.1	0.000500U	100.44	89.27-154.67	mg/L
Cadmium	0.0926	0.1	0.00100U	92.57	76.87-137.80	mg/L
Chromium	0.0859	0.1	0.00214	83.73	67.91-144.29	mg/L
Cobalt	0.0852	0.1	0.00100U	85.18	68.92-150.01	mg/L
Copper	0.102	0.1	0.00439	97.43	57.64-148.77	mg/L

Lead	0.0911	0.1	0.00100U	91.06	69.09-150.83	mg/L		
Nickel	0.0847	0.1	0.00295	81.72	58.01-145.27	mg/L		
Selenium	0.0890	0.1	0.00200U	88.96	63.72-144.34	mg/L		
Silver	0.104	0.1	0.000500U	104.27	48.94-146.79	mg/L		
Thallium	0.0870	0.1	0.00100U	87.01	68.93-151.79	mg/L		
Vanadium	0.0899	0.1	0.00454	85.39	72.08-149.74	mg/L		
Zinc	0.0906	0.1	0.0182	72.35	51.79-149.89	mg/L		

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Antimony	0.0950	0.100	0.00200U	95.01	73.48-142.27	0.40	23.91	mg/L
Arsenic	0.0918	0.100	0.00183	89.99	73.05-140.45	1.19	26.42	mg/L
Barium	0.0992	0.100	0.00857	90.64	70.68-156.87	2.49	20.91	mg/L
Beryllium	0.104	0.100	0.000500U	104.28	89.27-154.67	3.75	22.45	mg/L
Cadmium	0.0926	0.100	0.00100U	92.61	76.87-137.80	0.04	24.42	mg/L
Chromium	0.0863	0.100	0.00214	84.16	67.91-144.29	0.50	26.93	mg/L
Cobalt	0.0864	0.100	0.00100U	86.39	68.92-150.01	1.41	20.94	mg/L
Copper	0.103	0.100	0.00439	98.84	57.64-148.77	1.38	26.04	mg/L
Lead	0.0927	0.100	0.00100U	92.74	69.09-150.83	1.83	26.35	mg/L
Nickel	0.0857	0.100	0.00295	82.73	58.01-145.27	1.19	25.87	mg/L
Selenium	0.0930	0.100	0.00200U	92.99	63.72-144.34	4.43	23.19	mg/L
Silver	0.105	0.100	0.000500U	105.01	48.94-146.79	0.71	25.78	mg/L
Thallium	0.0872	0.100	0.00100U	87.15	68.93-151.79	0.16	22.45	mg/L
Vanadium	0.0934	0.100	0.00454	88.84	72.08-149.74	3.76	21.04	mg/L
Zinc	0.0919	0.100	0.0182	73.64	51.79-149.89	1.41	25.51	mg/L

QC Batch 10140785 **Analyst:**DMP

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
TDS	1430	1500	95.07	88.20-108.17	mg/L

QC Batch 10140805 **Analyst:**EVB

Blank	Result	Units
Iron	0.0213	mg/L
Sodium	0.500U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Iron	9.60	10.0	95.99	81.21-113.54	mg/L
Sodium	8.74	10.0	87.44	78.62-112.15	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Iron	5.01	5	0.0446	99.26	57.02-147.60	mg/L
Sodium	8.21	5	2.97	104.79	37.63-161.64	mg/L

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Iron	5.08	5.00	0.0446	100.72	57.02-147.60	1.45	19.53	mg/L
Sodium	8.85	5.00	2.97	117.53	37.63-161.64	7.47	19.20	mg/L

QC Batch 10140859 **Analyst:**PCW

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

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Ammonia (as N)	0.412	0.390	105.64	81.97-117.96	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Ammonia (as N)	0.732	0.78	-0.0215	96.60	55.89-136.14	mg/L

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Ammonia (as N)	0.730	0.780	-0.0215	96.35	55.89-136.14	0.27	13.58	mg/L

QC Batch 10140876 **Analyst:**CLS

Blank	Result	Units
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
Chloroethane	0.500U	ug/L
Chloroform	0.500U	ug/L
Chloromethane	2.00U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L

Ethylbenzene	0.500U	ug/L
Methyl Iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methylene chloride	1.00U	ug/L
o-dichlorobenzene	0.500U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
trans-1,2-dichloroethene	0.500U	ug/L
trans-1,3,-Dichloropropene	0.500U	ug/L
trans-1,4-dichloro-2-butene	1.00U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	5.00U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	1.00U	ug/L
1,1,1,2-Tetrachloroethane	0.500U	ug/L
1,1,1-Trichloroethane	0.500U	ug/L
1,1,2,2-Tetrachloroethane	0.100U	ug/L
1,1,2-Trichloroethane	0.500U	ug/L
1,1-Dichloroethane	0.500U	ug/L
1,1-Dichloroethene	0.500U	ug/L
1,2-dichloroethane	0.500U	ug/L
1,2-dichloropropane	0.500U	ug/L
2-Butanone (MEK)	1.00U	ug/L
2-Hexanone	1.00U	ug/L
Surr:Bromofluorobenzene	29.7	ug/L
Surr:Toluene-d8	28.8	ug/L
Surr:1,2-Dichloroethane-d4	30.2	ug/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Acetone	8.41	10.0	84.10	38.88-162.52	ug/L
Acrylonitrile	9.65	10.0	96.50	40.32-146.67	ug/L
Benzene	10.9	10.0	109.10	69.86-134.08	ug/L
Bromochloromethane	11.1	10.0	110.70	73.37-125.03	ug/L
Bromodichloromethane	10.2	10.0	101.60	73.69-129.06	ug/L
Bromoform	12.1	10.0	121.30	66.50-120.60	ug/L
Bromomethane	7.62	10.0	76.20	52.06-149.03	ug/L
Carbon Disulfide	11.5	10.0	115.00	72.42-160.65	ug/L
Carbon Tetrachloride	12.0	10.0	120.20	69.24-130.87	ug/L
Chlorobenzene	11.0	10.0	110.00	76.12-122.63	ug/L
Chloroethane	8.53	10.0	85.30	54.48-148.84	ug/L
Chloroform	11.3	10.0	113.10	70.86-132.14	ug/L
Chloromethane	8.82	10.0	88.20	53.66-151.98	ug/L
cis-1,2-dichloroethene	10.8	10.0	107.60	72.17-127.13	ug/L
cis-1,3-Dichloropropene	10.1	10.0	100.80	72.26-128.63	ug/L
Dibromochloromethane	11.0	10.0	109.90	72.48-118.93	ug/L
Ethylbenzene	10.9	10.0	108.60	70.56-124.95	ug/L
Methyl Iodide	10.7	10.0	107.30	55.71-163.66	ug/L
Methyl isobutyl ketone	9.98	10.0	99.80	50.12-132.13	ug/L
Methylene chloride	10.6	10.0	105.70	40.69-151.61	ug/L
o-dichlorobenzene	10.4	10.0	104.10	59.80-127.24	ug/L
Para-dichlorobenzene	10.4	10.0	104.30	59.80-127.16	ug/L
Styrene	10.9	10.0	109.10	64.43-121.79	ug/L
Tetrachloroethene	11.6	10.0	115.90	49.80-173.40	ug/L
Toluene	10.7	10.0	106.80	75.34-126.10	ug/L
trans-1,2-dichloroethene	11.0	10.0	109.90	69.34-133.94	ug/L
trans-1,3,-Dichloropropene	10.4	10.0	104.10	69.36-124.24	ug/L
Trichloroethene	10.9	10.0	108.50	70.68-139.87	ug/L
Trichlorofluoromethane	10.6	10.0	105.80	44.99-156.60	ug/L
Vinyl chloride	10.9	10.0	109.20	56.53-148.31	ug/L
Xylenes	33.0	30.0	110.13	70.92-123.99	ug/L
1,1,1,2-Tetrachloroethane	11.1	10.0	110.60	72.36-126.72	ug/L
1,1,1-Trichloroethane	11.7	10.0	117.20	72.34-131.71	ug/L
1,1,2,2-Tetrachloroethane	10.9	10.0	108.50	73.03-130.21	ug/L
1,1,2-Trichloroethane	10.7	10.0	106.50	78.01-120.70	ug/L
1,1-Dichloroethane	10.4	10.0	103.70	68.89-133.90	ug/L
1,1-Dichloroethene	11.1	10.0	111.40	57.83-149.70	ug/L
1,2-dichloroethane	10.8	10.0	107.90	71.63-130.49	ug/L
1,2-dichloropropane	9.57	10.0	95.70	72.07-128.11	ug/L
2-Butanone (MEK)	12.2	10.0	121.60	59.03-164.47	ug/L
2-Hexanone	10.7	10.0	106.50	60.06-141.22	ug/L
Surr:Bromofluorobenzene	29.9	30.0	99.60	82.78-122.32	ug/L
Surr:Toluene-d8	28.3	30.0	94.37	88.96-111.11	ug/L
Surr:1,2-Dichloroethane-d4	30.1	30.0	100.30	77.68-129.99	ug/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Acetone	17.9	20	5.00U	89.60	46.01-156.32	ug/L
Acrylonitrile	15.2	20	0.300U	76.00	43.40-147.39	ug/L
Benzene	18.1	20	0.500U	90.30	74.48-134.24	ug/L
Bromochloromethane	18.8	20	0.100U	94.10	73.98-126.75	ug/L

Bromodichloromethane	21.0	20	3.14	89.35	74.51-131.60	ug/L	
Bromoform	18.7	20	0.500U	93.45	65.77-126.66	ug/L	
Bromomethane	15.2	20	0.500U	75.85	45.79-154.07	ug/L	
Carbon Tetrachloride	20.1	20	0.500U	100.30	69.71-134.11	ug/L	
Chlorobenzene	17.9	20	0.500U	89.70	78.18-124.63	ug/L	
Chloroethane	16.8	20	0.500U	84.15	57.96-148.61	ug/L	
Chloroform	80.8	20	64.5	81.35	67.52-139.02	ug/L	
Chloromethane	16.1	20	2.00U	80.60	51.30-156.78	ug/L	
cis-1,2-dichloroethene	17.7	20	0.200U	88.30	76.64-126.84	ug/L	
cis-1,3-Dichloropropene	17.1	20	0.500U	85.50	67.26-137.96	ug/L	
Dibromochloromethane	18.0	20	0.400U	90.20	73.00-123.23	ug/L	
Ethylbenzene	18.3	20	0.500U	91.50	73.91-128.64	ug/L	
Methyl Iodide	20.0	20	1.00U	100.15	54.23-165.25	ug/L	
Methyl isobutyl ketone	15.3	20	1.00U	76.30	57.64-133.07	ug/L	
Methylene chloride	17.8	20	1.00U	89.05	50.29-142.90	ug/L	
o-dichlorobenzene	17.1	20	0.500U	85.70	71.04-127.37	ug/L	
Para-dichlorobenzene	17.1	20	0.500U	85.40	70.44-126.55	ug/L	
Styrene	17.8	20	0.500U	88.80	68.01-124.71	ug/L	
Tetrachloroethene	19.7	20	0.500U	98.65	49.77-180.05	ug/L	
Toluene	19.0	20	1.13	89.25	77.67-128.73	ug/L	
trans-1,2-dichloroethene	18.4	20	0.500U	92.05	71.14-135.42	ug/L	
trans-1,3,-Dichloropropene	17.3	20	0.500U	86.60	68.77-131.64	ug/L	
Trichloroethene	18.6	20	0.500U	92.90	77.68-135.38	ug/L	
Trichlorofluoromethane	18.4	20	0.500U	91.80	48.94-159.62	ug/L	
Vinyl chloride	19.4	20	0.500U	97.05	56.51-147.62	ug/L	
Xylenes	54.1	60	1.00U	90.20	74.03-127.32	ug/L	
1,1,1,2-Tetrachloroethane	18.3	20	0.500U	91.25	74.08-128.41	ug/L	
1,1,1-Trichloroethane	19.5	20	0.500U	97.60	74.12-134.44	ug/L	
1,1,2,2-Tetrachloroethane	16.4	20	0.100U	81.80	70.96-136.31	ug/L	
1,1,2-Trichloroethane	16.8	20	0.500U	83.75	78.08-124.41	ug/L	
1,1-Dichloroethane	17.3	20	0.500U	86.45	72.78-134.55	ug/L	
1,1-Dichloroethene	19.0	20	0.500U	94.75	58.40-151.32	ug/L	
1,2-dichloroethane	17.9	20	0.500U	89.50	71.53-134.48	ug/L	
1,2-dichloropropane	15.4	20	0.500U	77.10	74.50-129.66	ug/L	
2-Butanone (MEK)	15.1	20	1.00U	75.65	64.53-153.74	ug/L	
2-Hexanone	13.6	20	1.00U	68.20	62.58-147.29	ug/L	
Surr:Bromofluorobenzene	30.4	30		101.47	53.82-151.16	ug/L	
Surr:Toluene-d8	29.0	30		96.73	88.05-109.81	ug/L	
Surr:1,2-Dichloroethane-d4	29.1	30		97.13	75.07-126.19	ug/L	

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Acetone	18.9	20.0	5.00U	94.45	46.01-156.32	5.27	38.47	ug/L
Acrylonitrile	16.3	20.0	0.300U	81.40	43.40-147.39	6.86	24.85	ug/L
Benzene	20.0	20.0	0.500U	99.75	74.48-134.24	9.94	18.98	ug/L
Bromochloromethane	20.5	20.0	0.100U	102.60	73.98-126.75	8.64	15.45	ug/L
Bromodichloromethane	22.5	20.0	3.14	96.60	74.51-131.60	6.67	14.47	ug/L
Bromoform	21.5	20.0	0.500U	107.60	65.77-126.66	14.08	18.89	ug/L
Bromomethane	17.4	20.0	0.500U	86.75	45.79-154.07	13.41	22.97	ug/L
Carbon Tetrachloride	22.5	20.0	0.500U	112.35	69.71-134.11	11.33	18.68	ug/L
Chlorobenzene	20.7	20.0	0.500U	103.25	78.18-124.63	14.05	17.54	ug/L
Chloroethane	21.5	20.0	0.500U	107.60	57.96-148.61	24.46	24.25	ug/L
Chloroform	77.9	20.0	64.5	66.75	67.52-139.02	3.68	17.36	ug/L
Chloromethane	17.5	20.0	2.00U	87.55	51.30-156.78	8.27	24.58	ug/L
cis-1,2-dichloroethene	20.2	20.0	0.200U	101.00	76.64-126.84	13.42	19.01	ug/L
cis-1,3-Dichloropropene	19.4	20.0	0.500U	96.85	67.26-137.96	12.45	17.79	ug/L
Dibromochloromethane	20.8	20.0	0.400U	103.85	73.00-123.23	14.07	17.16	ug/L
Ethylbenzene	20.7	20.0	0.500U	103.50	73.91-128.64	12.31	17.78	ug/L
Methyl Iodide	23.2	20.0	1.00U	115.90	54.23-165.25	14.58	24.15	ug/L
Methyl isobutyl ketone	17.3	20.0	1.00U	86.70	57.64-133.07	12.76	23.20	ug/L
Methylene chloride	19.6	20.0	1.00U	97.85	50.29-142.90	9.42	22.29	ug/L
o-dichlorobenzene	19.3	20.0	0.500U	96.30	71.04-127.37	11.65	17.00	ug/L
Para-dichlorobenzene	19.3	20.0	0.500U	96.30	70.44-126.55	12.00	14.84	ug/L
Styrene	20.0	20.0	0.500U	100.00	68.01-124.71	11.86	17.03	ug/L
Tetrachloroethene	22.2	20.0	0.500U	111.05	49.77-180.05	11.83	27.05	ug/L
Toluene	21.3	20.0	1.13	101.05	77.67-128.73	11.71	18.11	ug/L
trans-1,2-dichloroethene	20.7	20.0	0.500U	103.30	71.14-135.42	11.52	19.23	ug/L
trans-1,3,-Dichloropropene	19.6	20.0	0.500U	97.90	68.77-131.64	12.25	17.05	ug/L
Trichloroethene	20.6	20.0	0.500U	102.90	77.68-135.38	10.21	16.98	ug/L
Trichlorofluoromethane	19.8	20.0	0.500U	98.85	48.94-159.62	7.40	24.90	ug/L
Vinyl chloride	20.6	20.0	0.500U	103.00	56.51-147.62	5.95	21.53	ug/L
Xylenes	60.6	60.0	1.00U	101.07	74.03-127.32	11.36	18.64	ug/L
1,1,1,2-Tetrachloroethane	20.3	20.0	0.500U	101.70	74.08-128.41	10.83	18.35	ug/L
1,1,1-Trichloroethane	22.4	20.0	0.500U	112.05	74.12-134.44	13.78	19.03	ug/L
1,1,2,2-Tetrachloroethane	18.4	20.0	0.100U	92.00	70.96-136.31	11.74	18.50	ug/L
1,1,2-Trichloroethane	19.3	20.0	0.500U	96.35	78.08-124.41	13.99	15.94	ug/L
1,1-Dichloroethane	19.2	20.0	0.500U	95.75	72.78-134.55	10.21	16.44	ug/L
1,1-Dichloroethene	21.1	20.0	0.500U	105.40	58.40-151.32	10.64	23.15	ug/L
1,2-dichloroethane	20.1	20.0	0.500U	100.40	71.53-134.48	11.48	15.32	ug/L
1,2-dichloropropane	17.9	20.0	0.500U	89.25	74.50-129.66	14.61	16.56	ug/L
2-Butanone (MEK)	16.2	20.0	1.00U	81.15	64.53-153.74	7.02	32.53	ug/L
2-Hexanone	16.3	20.0	1.00U	81.55	62.58-147.29	17.83	25.26	ug/L
Surr:Bromofluorobenzene	30.4	30.0		101.20	53.82-151.16	0.26	13.51	ug/L

Surr:Toluene-d8	29.4	30.0		97.93	88.05-109.81	1.23	7.44	ug/L
Surr:1,2-Dichloroethane-d4	29.1	30.0		96.90	75.07-126.19	0.24	8.75	ug/L

QC Batch 10140885 **Analyst:**DMP

Blank	**Result**	**Units**
TDS	2.50U	mg/L

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
TDS	1390	1500	92.67	88.20-108.17	mg/L

QC Batch 10140919 **Analyst:**VLB

Blank	**Result**	**Units**
Chloride	4.00U	mg/L

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Chloride	51.4	50.0	102.84	80.00-120.00	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Chloride	89.8	50	36.2	107.38	80.00-120.00	mg/L

Matrix Spike Duplicate	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**RPD**	**RPD Limit**	**Units**
Chloride	85.9	50.0	36.2	99.44	80.00-120.00	4.52	20.00	mg/L

QC Batch 10140920 **Analyst:**VLB

Blank	**Result**	**Units**
Chloride	4.00U	mg/L

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Chloride	19.2	20.0	96.20	80.00-120.00	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Chloride	64.1	50	13.6	101.04	80.00-120.00	mg/L

Matrix Spike Duplicate	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**RPD**	**RPD Limit**	**Units**
Chloride	64.0	50.0	13.6	100.94	80.00-120.00	0.08	20.00	mg/L

QC Batch 10141667 **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**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
1,2,3-Trichloropropane	0.929	0.750	123.81	80.00-120.00	ug/L
1,2-Dibromoethane (EDB)	0.776	0.750	103.51	71.37-128.24	ug/L
1,2-dibromo-3-chloropropane	0.762	0.750	101.55	56.44-144.91	ug/L

FLOWERS
CHEMICAL LABORATORIES INCORPORATED

January 13, 2010 11:36 AM EDT
Welcome, Greg Mudd!
PBS&J
Log Out

- Home
- Contact
- Services
- Credentials
- Clients Only
- Links

Analytical Report

Go More Reports

Summary			
Client	PBS&J	**Date Sampled**	Dec 14, 2009
	482 South Keller Rd	**Date Received**	Dec 14, 2009
	Orlando, FL 32810	**Date Reported**	Dec 28, 2009
		FLDOH #	E83018 (Main Lab)
PO Number	40612	**FLDOH #**	E86562 (South Lab)
Project Number	Hardee County Region Landfill	**NYSDOH #**	11595
Invoice Number	112344	**CTDPH #**	173
		NJDEP #	FL015
		UTDOH #	FLOW

Laboratory Number	Sample Description	Analyses	Chemist	Location	Sample Matrix
112344SW1	21062/SW-2	EPA200.7	EVB	Main Lab	Surface Water
		EPA200.8	EVB	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA375.2	PCW	Main Lab	
		EPA410.4	VLB	Main Lab	
		EPA420.1	PCW	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	CLS	Main Lab	
		FDEP DEP-SOP FT1000	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	TRB	Main Lab	
		SM2340 B	EVB	Main Lab	
		SM2540 C	DMP	Main Lab	
		SM2540 D	BHM	Main Lab	
		SM5210 B	CCP	Main Lab	
		SM5310 B	PCW	Main Lab	
		SM9222 D	TRB	Main Lab	
		TotNit			
112344SW2	Trip Blank	EPA8260	CLS	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.

Analysis Report

Sample Description 21062/SW-2
Laboratory Number 112344SW1 **Date Sampled** Dec 14, 2009 10:45 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
Field Ground Water Elevation			0			FT1000	
Total Nitrogen(as N)	1.89		0			TotNit	
Nitrate(as N)	0.0747	mg/L	1.00	0.0100	10140286	EPA353.2	12/15/09 04:01 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	10140286	EPA353.2	12/15/09 04:01 PM
Iron	0.360	mg/L	1.00	0.0100	10140311	EPA200.7	12/15/09
Fecal Coliform	45.0	cfu/100mL	1.00	1.00	10140339	SM9222 D	12/14/09 04:00 PM
Total Hardness (as CaCO3)	116	mg/L	1.00	0.100	10140358	SM2340 B	12/15/09
Sulfate	16.3	mg/L	1.00	5.00	10140410	EPA375.2	12/16/09
Antimony	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Arsenic	0.00190 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Barium	0.00746	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Beryllium	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Cadmium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Chromium	0.00142 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Cobalt	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Copper	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Lead	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Nickel	0.00188 I	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Selenium	0.00200 U	mg/L	1.00	0.00200	10140426	EPA6020	12/16/09
Silver	0.000500 U	mg/L	1.00	0.000500	10140426	EPA6020	12/16/09
Thallium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Vanadium	0.00100 U	mg/L	1.00	0.00100	10140426	EPA6020	12/16/09
Zinc	0.0134 I	mg/L	1.00	0.0100	10140426	EPA6020	12/16/09
Aluminum	0.128	mg/L	1.00	0.0100	10140428	EPA200.8	12/16/09
TSS	1.00 U	mg/L	1.00	1.00	10140524	SM2540 D	12/17/09
TOC	23.9	mg/L	1.00	1.00	10140545	SM5310 B	12/17/09
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	10140667	EPA8011	12/16/09
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	10140667	EPA8011	12/16/09
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	10140667	EPA8011	12/16/09
BOD5day	6.60	mg/L	1.00	2.00	10140716	SM5210 B	12/16/09 08:00 AM
Phenolics	0.00500 U	mg/L	1.00	0.00500	10140778	EPA420.1	12/22/09
TDS	304	mg/L	1.00	2.50	10140785	SM2540 C	12/21/09
Total Phosphorous(as P)	0.777	mg/L	1.00	0.0400	10140849	EPA365.4	12/22/09
Unionized NH3(as N)	0.000220	mg/L	1.00	0.000100	10140860	FDEP DEP-SOP	12/22/09
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140874	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140874	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140874	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140874	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140874	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09

Bromomethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140874	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140874	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Methylene chloride	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140874	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140874	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (166-245%)	100.20%		1.00	0.0100	10140874	EPA8260	12/22/09
Surr:Bromofluorobenzene (101-311%)	101.17%		1.00	1.00	10140874	EPA8260	12/22/09
Surr:Toluene-d8 (177-214%)	96.53%		1.00	0.0100	10140874	EPA8260	12/22/09
TKN(as N)	1.82	mg/L	1.00	0.200	10140933	EPA351.2	12/22/09
Chemical Oxygen Demand	20.0 U	mg/L	1.00	20.0	10140974	EPA410.4	12/23/09
Field pH (units)	6.78	pH	1.00	0.0100		FT1100	12/14/09
Field Conductivity	310	umhos/cm	1.00	0.100		FT1200	12/14/09
Field Temp. (C)	21.4	oC	1.00	0.100		FT1400	12/14/09
Field DO	3.83	mg/L	1.00	0.100		FT1500	12/14/09
Field Turbidity	0.950	NTU	1.00	0.100		FT1600	12/14/09
Chlorophyll a	1.00 U	mg/m3	1.00	1.00	10141170	SM10200 H	12/16/09

Sample Description Trip Blank
Laboratory Number 112344SW2 **Date Sampled** Dec 14, 2009 10:45 AM

Parameter	Result	Units	DF	MDL	QC Batch	Method	Analyzed
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	10140874	EPA8260	12/22/09
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
1,2-dichloropropane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
2-Hexanone	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Acetone	5.00 U	ug/L	1.00	5.00	10140874	EPA8260	12/22/09
Acrylonitrile	0.300 U	ug/L	1.00	0.300	10140874	EPA8260	12/22/09
Benzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Bromochloromethane	0.100 U	ug/L	1.00	0.100	10140874	EPA8260	12/22/09
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	10140874	EPA8260	12/22/09
Bromoform	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Bromomethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09

Chlorobenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chloroethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chloroform	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Chloromethane	2.00 U	ug/L	1.00	2.00	10140874	EPA8260	12/22/09
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	10140874	EPA8260	12/22/09
Dibromomethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Ethylbenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Methyl Iodide	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Methylene chloride	4.06	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Styrene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Toluene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Trichloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Vinyl Acetate	5.00 U	ug/L	1.00	5.00	10140874	EPA8260	12/22/09
Vinyl chloride	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
Xylenes	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	10140874	EPA8260	12/22/09
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	10140874	EPA8260	12/22/09
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	10140874	EPA8260	12/22/09
Surr:1,2-Dichloroethane-d4 (166-245%)	99.03%		1.00	0.0100	10140874	EPA8260	12/22/09
Surr:Bromofluorobenzene (101-311%)	99.97%		1.00	1.00	10140874	EPA8260	12/22/09
Surr:Toluene-d8 (177-214%)	95.0 %		1.00	0.0100	10140874	EPA8260	12/22/09

Quality Control Report

QC Batch 10140286 **Analyst:**PCW

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

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Nitrate(as N)	2.09	2.00	104.50	80.00-120.00	mg/L
Nitrite(as N)	1.03	1.00	103.00	80.00-120.00	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Nitrate(as N)	4.02	4	0.415	90.12	80.00-120.00	mg/L
Nitrite(as N)	3.35	4	0.0762	81.85	80.00-120.00	mg/L

Matrix Spike Duplicate	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**RPD**	**RPD Limit**	**Units**
Nitrate(as N)	4.05	4.00	0.415	90.88	80.00-120.00	0.74	20.00	mg/L
Nitrite(as N)	3.32	4.00	0.0762	81.10	80.00-120.00	0.90	20.00	mg/L

QC Batch 10140311 **Analyst:**EVB

Blank	**Result**	**Units**
Iron	0.0100U	mg/L

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Iron	11.2	10.0	111.75	83.52-110.32	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Iron	4.86	5	0.417	88.83	57.52-143.16	mg/L

Matrix Spike Duplicate	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**RPD**	**RPD Limit**	**Units**
Iron	5.33	5.00	0.417	98.34	57.52-143.16	9.33	32.10	mg/L

QC Batch 10140339 **Analyst:**TRB

Blank	Result	Units
Fecal Coliform	1.00U	cfu/100mL

QC Batch 10140358 **Analyst:**EVB

Blank	Result	Units
Total Hardness (as CaCO3)	0.100U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Total Hardness (as CaCO3)	71.3	66.2	107.72	81.91-115.19	mg/L

QC Batch 10140410 **Analyst:**PCW

Blank	Result	Units
Sulfate	5.00U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Sulfate	64.5	60.0	107.50	91.94-106.64	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Sulfate	53.8	50	-1.38	110.36	51.32-145.17	mg/L

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Sulfate	54.0	50.0	-1.38	110.76	51.32-145.17	0.37	7.31	mg/L

QC Batch 10140426 **Analyst:**EVB

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

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Antimony	0.196	0.200	98.03	76.70-120.39	mg/L
Arsenic	0.206	0.200	102.88	81.09-119.32	mg/L
Barium	0.202	0.200	101.14	84.59-125.11	mg/L
Beryllium	0.212	0.200	106.06	85.69-132.22	mg/L
Cadmium	0.202	0.200	101.15	84.66-121.81	mg/L
Chromium	0.210	0.200	105.02	87.00-122.96	mg/L
Cobalt	0.205	0.200	102.34	78.66-126.98	mg/L
Copper	0.215	0.200	107.53	84.08-122.69	mg/L
Lead	0.204	0.200	101.81	86.91-124.18	mg/L
Nickel	0.205	0.200	102.39	77.31-126.31	mg/L
Selenium	0.214	0.200	107.17	75.98-121.42	mg/L
Silver	0.223	0.200	111.48	79.76-119.92	mg/L
Thallium	0.194	0.200	97.07	80.95-125.84	mg/L
Vanadium	0.209	0.200	104.53	78.51-125.51	mg/L
Zinc	0.205	0.200	102.43	79.82-122.80	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Antimony	0.0946	0.1	0.00200U	94.63	73.48-142.27	mg/L
Arsenic	0.0907	0.1	0.00183	88.90	73.05-140.45	mg/L

Barium	0.102	0.1	0.00857	93.14	70.68-156.87	mg/L	
Beryllium	0.100	0.1	0.000500U	100.44	89.27-154.67	mg/L	
Cadmium	0.0926	0.1	0.00100U	92.57	76.87-137.80	mg/L	
Chromium	0.0859	0.1	0.00214	83.73	67.91-144.29	mg/L	
Cobalt	0.0852	0.1	0.00100U	85.18	68.92-150.01	mg/L	
Copper	0.102	0.1	0.00439	97.43	57.64-148.77	mg/L	
Lead	0.0911	0.1	0.00100U	91.06	69.09-150.83	mg/L	
Nickel	0.0847	0.1	0.00295	81.72	58.01-145.27	mg/L	
Selenium	0.0890	0.1	0.00200U	88.96	63.72-144.34	mg/L	
Silver	0.104	0.1	0.000500U	104.27	48.94-146.79	mg/L	
Thallium	0.0870	0.1	0.00100U	87.01	68.93-151.79	mg/L	
Vanadium	0.0899	0.1	0.00454	85.39	72.08-149.74	mg/L	
Zinc	0.0906	0.1	0.0182	72.35	51.79-149.89	mg/L	

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Antimony	0.0950	0.100	0.00200U	95.01	73.48-142.27	0.40	23.91	mg/L
Arsenic	0.0918	0.100	0.00183	89.99	73.05-140.45	1.19	26.42	mg/L
Barium	0.0992	0.100	0.00857	90.64	70.68-156.87	2.49	20.91	mg/L
Beryllium	0.104	0.100	0.000500U	104.28	89.27-154.67	3.75	22.45	mg/L
Cadmium	0.0926	0.100	0.00100U	92.61	76.87-137.80	0.04	24.42	mg/L
Chromium	0.0863	0.100	0.00214	84.16	67.91-144.29	0.50	26.93	mg/L
Cobalt	0.0864	0.100	0.00100U	86.39	68.92-150.01	1.41	20.94	mg/L
Copper	0.103	0.100	0.00439	98.84	57.64-148.77	1.38	26.04	mg/L
Lead	0.0927	0.100	0.00100U	92.74	69.09-150.83	1.83	26.35	mg/L
Nickel	0.0857	0.100	0.00295	82.73	58.01-145.27	1.19	25.87	mg/L
Selenium	0.0930	0.100	0.00200U	92.99	63.72-144.34	4.43	23.19	mg/L
Silver	0.105	0.100	0.000500U	105.01	48.94-146.79	0.71	25.78	mg/L
Thallium	0.0872	0.100	0.00100U	87.15	68.93-151.79	0.16	22.45	mg/L
Vanadium	0.0934	0.100	0.00454	88.84	72.08-149.74	3.76	21.04	mg/L
Zinc	0.0919	0.100	0.0182	73.64	51.79-149.89	1.41	25.51	mg/L

QC Batch 10140428 **Analyst:**EVB

Blank	Result	Units
Aluminum	0.0100U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Aluminum	0.213	0.200	106.73	77.53-126.05	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Aluminum	0.200	0.1	0.0967	103.62	38.22-143.80	mg/L

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Aluminum	0.201	0.100	0.0967	104.32	38.22-143.80	0.35	32.13	mg/L

QC Batch 10140524 **Analyst:**BHM

Blank	Result	Units
TSS	1.00U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
TSS	12.0	47.5	25.26	81.45-115.18	mg/L

QC Batch 10140545 **Analyst:**PCW

Blank	Result	Units
TOC	1.00U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
TOC	9.98	10.0	99.82	80.00-120.00	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
TOC	13.0	10	3.74	92.63	86.19-112.87	mg/L

		Spike	Sample		%REC		RPD	

Matrix Spike Duplicate	Result	Amt	Result	%REC	Limits	RPD	Limit	Units
TOC	12.9	10.0	3.74	91.99	86.19-112.87	0.49	20.00	mg/L

QC Batch 10140667 **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	Spike Amt	%REC	%REC Limits	Units
1,2,3-Trichloropropane	0.804	0.750	107.21	80.00-120.00	ug/L
1,2-Dibromoethane (EDB)	0.770	0.750	102.65	80.00-120.00	ug/L
1,2-dibromo-3-chloropropane	0.771	0.750	102.82	80.00-120.00	ug/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
1,2,3-Trichloropropane	0.972	0.75	0.0200U	129.56	80.00-120.00	ug/L
1,2-Dibromoethane (EDB)	0.867	0.75	0.0100U	115.64	80.00-120.00	ug/L
1,2-dibromo-3-chloropropane	0.955	0.75	0.0200U	127.38	80.00-120.00	ug/L

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
1,2,3-Trichloropropane	0.908	0.750	0.0200U	121.13	80.00-120.00	6.73	20.00	ug/L
1,2-Dibromoethane (EDB)	0.858	0.750	0.0100U	114.42	80.00-120.00	1.06	20.00	ug/L
1,2-dibromo-3-chloropropane	0.913	0.750	0.0200U	121.72	80.00-120.00	4.54	20.00	ug/L

QC Batch 10140716 **Analyst:**CCP

Blank	Result	Units
BOD5day	2.00U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
BOD5day	239	198	120.45	73.74-121.48	mg/L

QC Batch 10140778 **Analyst:**PCW

Blank	Result	Units
Phenolics	0.00500U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Phenolics	0.0867	0.100	86.70	67.39-130.32	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Phenolics	0.0790	0.1	0.00641	72.59	54.66-137.51	mg/L

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Phenolics	0.0791	0.100	0.00641	72.69	54.66-137.51	0.13	35.92	mg/L

QC Batch 10140785 **Analyst:**DMP

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
TDS	1430	1500	95.07	88.20-108.17	mg/L

QC Batch 10140849 **Analyst:**VLB

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

Laboratory Control Sample	Result	Spike Amt	%REC	%REC Limits	Units
Total Phosphorous(as P)	1.03	1.00	102.50	84.24-112.72	mg/L

Matrix Spike	Result	Spike Amt	Sample Result	%REC	%REC Limits	Units
Total Phosphorous(as P)	1.39	1.5	0.0400U	92.40	79.95-119.28	mg/L

QC Batch 10140860 **Analyst:**PCW

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

QC Batch 10140874 **Analyst:**CLS

Blank	**Result**	**Units**
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
Chloroethane	0.500U	ug/L
Chloroform	0.500U	ug/L
Chloromethane	2.00U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Methyl Iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methylene chloride	1.00U	ug/L
o-dichlorobenzene	0.500U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
trans-1,2-dichloroethene	0.500U	ug/L
trans-1,3,-Dichloropropene	0.500U	ug/L
trans-1,4-dichloro-2-butene	1.00U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	5.00U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	1.00U	ug/L
1,1,1,2-Tetrachloroethane	0.500U	ug/L
1,1,1-Trichloroethane	0.500U	ug/L
1,1,2,2-Tetrachloroethane	0.100U	ug/L
1,1,2-Trichloroethane	0.500U	ug/L
1,1-Dichloroethane	0.500U	ug/L
1,1-Dichloroethene	0.500U	ug/L
1,2-dichloroethane	0.500U	ug/L
1,2-dichloropropane	0.500U	ug/L
2-Butanone (MEK)	1.00U	ug/L
2-Hexanone	1.00U	ug/L
Surr:Bromofluorobenzene	29.7	ug/L
Surr:Toluene-d8	28.8	ug/L
Surr:1,2-Dichloroethane-d4	30.2	ug/L

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Acetone	8.41	10.0	84.10	37.64-172.70	ug/L
Acrylonitrile	9.65	10.0	96.50	39.47-149.46	ug/L
Benzene	10.9	10.0	109.10	75.24-125.65	ug/L
Bromochloromethane	11.1	10.0	110.70	71.67-126.15	ug/L
Bromodichloromethane	10.2	10.0	101.60	74.61-125.27	ug/L
Bromoform	12.1	10.0	121.30	66.51-125.59	ug/L
Bromomethane	7.62	10.0	76.20	57.28-153.27	ug/L

Carbon Disulfide	11.5	10.0	115.00	81.01-141.09	ug/L
Carbon Tetrachloride	12.0	10.0	120.20	68.14-132.66	ug/L
Chlorobenzene	11.0	10.0	110.00	77.69-119.42	ug/L
Chloroethane	8.53	10.0	85.30	63.56-150.96	ug/L
Chloroform	11.3	10.0	113.10	67.64-138.63	ug/L
Chloromethane	8.82	10.0	88.20	55.12-156.31	ug/L
cis-1,2-dichloroethene	10.8	10.0	107.60	73.06-123.88	ug/L
cis-1,3-Dichloropropene	10.1	10.0	100.80	80.68-120.98	ug/L
Dibromochloromethane	11.0	10.0	109.90	65.65-126.41	ug/L
Ethylbenzene	10.9	10.0	108.60	70.93-123.57	ug/L
Methyl Iodide	10.7	10.0	107.30	54.93-164.95	ug/L
Methyl isobutyl ketone	9.98	10.0	99.80	37.93-142.74	ug/L
Methylene chloride	10.6	10.0	105.70	16.86-166.48	ug/L
o-dichlorobenzene	10.4	10.0	104.10	52.90-132.47	ug/L
Para-dichlorobenzene	10.4	10.0	104.30	50.96-133.39	ug/L
Styrene	10.9	10.0	109.10	71.72-114.32	ug/L
Tetrachloroethene	11.6	10.0	115.90	80.48-158.29	ug/L
Toluene	10.7	10.0	106.80	77.18-121.98	ug/L
trans-1,2-dichloroethene	11.0	10.0	109.90	68.03-139.74	ug/L
trans-1,3,-Dichloropropene	10.4	10.0	104.10	69.60-126.28	ug/L
Trichloroethene	10.9	10.0	108.50	75.98-128.22	ug/L
Trichlorofluoromethane	10.6	10.0	105.80	44.32-160.41	ug/L
Vinyl chloride	10.9	10.0	109.20	62.38-148.09	ug/L
Xylenes	33.0	30.0	110.13	73.15-120.44	ug/L
1,1,1,2-Tetrachloroethane	11.1	10.0	110.60	65.75-129.14	ug/L
1,1,1-Trichloroethane	11.7	10.0	117.20	71.54-134.27	ug/L
1,1,2,2-Tetrachloroethane	10.9	10.0	108.50	70.58-134.42	ug/L
1,1,2-Trichloroethane	10.7	10.0	106.50	78.94-122.62	ug/L
1,1-Dichloroethane	10.4	10.0	103.70	64.33-137.81	ug/L
1,1-Dichloroethene	11.1	10.0	111.40	58.65-144.80	ug/L
1,2-dichloroethane	10.8	10.0	107.90	70.20-131.56	ug/L
1,2-dichloropropane	9.57	10.0	95.70	70.79-128.96	ug/L
2-Butanone (MEK)	12.2	10.0	121.60	58.73-168.19	ug/L
2-Hexanone	10.7	10.0	106.50	61.33-136.93	ug/L
Surr:Bromofluorobenzene	29.9	30.0	99.60	84.60-123.15	ug/L
Surr:Toluene-d8	28.3	30.0	94.37	92.79-107.60	ug/L
Surr:1,2-Dichloroethane-d4	30.1	30.0	100.30	85.08-128.29	ug/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Acetone	17.9	20	5.00U	89.60	40.10-159.52	ug/L
Acrylonitrile	15.2	20	0.300U	76.00	46.99-145.24	ug/L
Benzene	18.1	20	0.500U	90.30	61.27-139.58	ug/L
Bromochloromethane	18.8	20	0.100U	94.10	63.83-134.84	ug/L
Bromodichloromethane	21.0	20	3.14	89.35	72.16-127.31	ug/L
Bromoform	18.7	20	0.500U	93.45	72.62-122.79	ug/L
Bromomethane	15.2	20	0.500U	75.85	39.13-160.98	ug/L
Carbon Tetrachloride	20.1	20	0.500U	100.30	62.14-139.48	ug/L
Chlorobenzene	17.9	20	0.500U	89.70	73.37-125.85	ug/L
Chloroethane	16.8	20	0.500U	84.15	63.53-147.18	ug/L
Chloroform	80.8	20	64.5	81.35	57.73-145.87	ug/L
Chloromethane	16.1	20	2.00U	80.60	53.83-155.48	ug/L
cis-1,2-dichloroethene	17.7	20	0.200U	88.30	67.74-134.67	ug/L
cis-1,3-Dichloropropene	17.1	20	0.500U	85.50	72.35-130.46	ug/L
Dibromochloromethane	18.0	20	0.400U	90.20	69.54-125.33	ug/L
Ethylbenzene	18.3	20	0.500U	91.50	68.03-130.86	ug/L
Methyl Iodide	20.0	20	1.00U	100.15	44.68-170.45	ug/L
Methyl isobutyl ketone	15.3	20	1.00U	76.30	45.04-143.51	ug/L
Methylene chloride	17.8	20	1.00U	89.05	29.60-161.21	ug/L
o-dichlorobenzene	17.1	20	0.500U	85.70	66.77-127.02	ug/L
Para-dichlorobenzene	17.1	20	0.500U	85.40	65.38-125.99	ug/L
Styrene	17.8	20	0.500U	88.80	70.76-118.37	ug/L
Tetrachloroethene	19.7	20	0.500U	98.65	67.64-171.93	ug/L

Toluene	19.0	20	1.13	89.25	65.14-135.51	ug/L	
trans-1,2-dichloroethene	18.4	20	0.500U	92.05	68.02-136.55	ug/L	
trans-1,3,-Dichloropropene	17.3	20	0.500U	86.60	70.04-129.81	ug/L	
Trichloroethene	18.6	20	0.500U	92.90	71.89-132.31	ug/L	
Trichlorofluoromethane	18.4	20	0.500U	91.80	44.48-169.12	ug/L	
Vinyl chloride	19.4	20	0.500U	97.05	58.87-147.20	ug/L	
Xylenes	54.1	60	1.00U	90.20	60.84-135.66	ug/L	
1,1,1,2-Tetrachloroethane	18.3	20	0.500U	91.25	62.33-135.40	ug/L	
1,1,1-Trichloroethane	19.5	20	0.500U	97.60	65.25-139.87	ug/L	
1,1,2,2-Tetrachloroethane	16.4	20	0.100U	81.80	66.18-136.57	ug/L	
1,1,2-Trichloroethane	16.8	20	0.500U	83.75	74.00-129.28	ug/L	
1,1-Dichloroethane	17.3	20	0.500U	86.45	60.45-145.88	ug/L	
1,1-Dichloroethene	19.0	20	0.500U	94.75	48.95-154.90	ug/L	
1,2-dichloroethane	17.9	20	0.500U	89.50	63.54-140.44	ug/L	
1,2-dichloropropane	15.4	20	0.500U	77.10	69.00-134.27	ug/L	
2-Butanone (MEK)	15.1	20	1.00U	75.65	74.66-142.29	ug/L	
2-Hexanone	13.6	20	1.00U	68.20	59.08-147.93	ug/L	
Surr:Bromofluorobenzene	30.4	30		101.47	50.75-155.35	ug/L	
Surr:Toluene-d8	29.0	30		96.73	90.53-109.14	ug/L	
Surr:1,2-Dichloroethane-d4	29.1	30		97.13	82.85-121.80	ug/L	

Matrix Spike Duplicate	Result	Spike Amt	Sample Result	%REC	%REC Limits	RPD	RPD Limit	Units
Acetone	18.9	20.0	5.00U	94.45	40.10-159.52	5.27	38.61	ug/L
Acrylonitrile	16.3	20.0	0.300U	81.40	46.99-145.24	6.86	36.26	ug/L
Benzene	20.0	20.0	0.500U	99.75	61.27-139.58	9.94	25.12	ug/L
Bromochloromethane	20.5	20.0	0.100U	102.60	63.83-134.84	8.64	26.51	ug/L
Bromodichloromethane	22.5	20.0	3.14	96.60	72.16-127.31	6.67	25.17	ug/L
Bromoform	21.5	20.0	0.500U	107.60	72.62-122.79	14.08	29.13	ug/L
Bromomethane	17.4	20.0	0.500U	86.75	39.13-160.98	13.41	28.42	ug/L
Carbon Tetrachloride	22.5	20.0	0.500U	112.35	62.14-139.48	11.33	27.85	ug/L
Chlorobenzene	20.7	20.0	0.500U	103.25	73.37-125.85	14.05	27.33	ug/L
Chloroethane	21.5	20.0	0.500U	107.60	63.53-147.18	24.46	35.69	ug/L
Chloroform	77.9	20.0	64.5	66.75	57.73-145.87	3.68	28.80	ug/L
Chloromethane	17.5	20.0	2.00U	87.55	53.83-155.48	8.27	29.46	ug/L
cis-1,2-dichloroethene	20.2	20.0	0.200U	101.00	67.74-134.67	13.42	28.79	ug/L
cis-1,3-Dichloropropene	19.4	20.0	0.500U	96.85	72.35-130.46	12.45	25.83	ug/L
Dibromochloromethane	20.8	20.0	0.400U	103.85	69.54-125.33	14.07	28.11	ug/L
Ethylbenzene	20.7	20.0	0.500U	103.50	68.03-130.86	12.31	25.52	ug/L
Methyl Iodide	23.2	20.0	1.00U	115.90	44.68-170.45	14.58	27.56	ug/L
Methyl isobutyl ketone	17.3	20.0	1.00U	86.70	45.04-143.51	12.76	22.66	ug/L
Methylene chloride	19.6	20.0	1.00U	97.85	29.60-161.21	9.42	33.74	ug/L
o-dichlorobenzene	19.3	20.0	0.500U	96.30	66.77-127.02	11.65	28.62	ug/L
Para-dichlorobenzene	19.3	20.0	0.500U	96.30	65.38-125.99	12.00	27.08	ug/L
Styrene	20.0	20.0	0.500U	100.00	70.76-118.37	11.86	28.56	ug/L
Tetrachloroethene	22.2	20.0	0.500U	111.05	67.64-171.93	11.83	32.62	ug/L
Toluene	21.3	20.0	1.13	101.05	65.14-135.51	11.71	23.01	ug/L
trans-1,2-dichloroethene	20.7	20.0	0.500U	103.30	68.02-136.55	11.52	29.38	ug/L
trans-1,3,-Dichloropropene	19.6	20.0	0.500U	97.90	70.04-129.81	12.25	30.36	ug/L
Trichloroethene	20.6	20.0	0.500U	102.90	71.89-132.31	10.21	25.29	ug/L
Trichlorofluoromethane	19.8	20.0	0.500U	98.85	44.48-169.12	7.40	34.97	ug/L
Vinyl chloride	20.6	20.0	0.500U	103.00	58.87-147.20	5.95	27.28	ug/L
Xylenes	60.6	60.0	1.00U	101.07	60.84-135.66	11.36	24.37	ug/L
1,1,1,2-Tetrachloroethane	20.3	20.0	0.500U	101.70	62.33-135.40	10.83	29.26	ug/L
1,1,1-Trichloroethane	22.4	20.0	0.500U	112.05	65.25-139.87	13.78	28.50	ug/L
1,1,2,2-Tetrachloroethane	18.4	20.0	0.100U	92.00	66.18-136.57	11.74	30.72	ug/L
1,1,2-Trichloroethane	19.3	20.0	0.500U	96.35	74.00-129.28	13.99	27.63	ug/L
1,1-Dichloroethane	19.2	20.0	0.500U	95.75	60.45-145.88	10.21	28.39	ug/L
1,1-Dichloroethene	21.1	20.0	0.500U	105.40	48.95-154.90	10.64	29.91	ug/L
1,2-dichloroethane	20.1	20.0	0.500U	100.40	63.54-140.44	11.48	26.67	ug/L
1,2-dichloropropane	17.9	20.0	0.500U	89.25	69.00-134.27	14.61	28.05	ug/L
2-Butanone (MEK)	16.2	20.0	1.00U	81.15	74.66-142.29	7.02	44.82	ug/L
2-Hexanone	16.3	20.0	1.00U	81.55	59.08-147.93	17.83	36.47	ug/L

Surr:Bromofluorobenzene	30.4	30.0		101.20	50.75-155.35	0.26	19.49	ug/L
Surr:Toluene-d8	29.4	30.0		97.93	90.53-109.14	1.23	8.07	ug/L
Surr:1,2-Dichloroethane-d4	29.1	30.0		96.90	82.85-121.80	0.24	9.34	ug/L

QC Batch 10140933 **Analyst:** VLB

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

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
TKN(as N)	3.02	3.11	97.32	81.58-112.16	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
TKN(as N)	3.37	2.33	0.961	103.48	66.46-127.47	mg/L

QC Batch 10140974 **Analyst:** VLB

Blank	**Result**	**Units**
Chemical Oxygen Demand	20.0U	mg/L

Laboratory Control Sample	**Result**	**Spike Amt**	**%REC**	**%REC Limits**	**Units**
Chemical Oxygen Demand	105	100	104.99	78.02-123.76	mg/L

Matrix Spike	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**Units**
Chemical Oxygen Demand	184	200	800U	91.93	49.31-147.24	mg/L

Matrix Spike Duplicate	**Result**	**Spike Amt**	**Sample Result**	**%REC**	**%REC Limits**	**RPD**	**RPD Limit**	**Units**
Chemical Oxygen Demand	184	200	800U	91.93	49.31-147.24	0.00	27.57	mg/L

QC Batch 10141170 **Analyst:** TRB

Blank	**Result**	**Units**
Chlorophyll a	1.00U	mg/m3

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.
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

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

Client: PBS+J	Project Name: Hardee Co. SW Landfill MW's	P.O. #
Address	Client Contact: Greg Mudd	FAX
	FCL Project Manager: J. Flowers	E-MAIL
Phone	Requested Due Date 10 Day Standard OR	Rush Charges May Apply
Sampled By (PRINT): Tommy Cross / Robert Carpenter	Pick-Up Fee $	Vehicle Surcharge $
Sampler Signature	Date Sampled: 12/15/09	Sampling Fee $ 1 x 8

GW - ground water DW - drinking water WW - wastewater
SW - surface water S - 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 REQUESTED: App I Metals	Fe, Mn	Cl, SO_4, TDS	App I VOC (8260)	App II VOC (8011)	NH_3	COMMENTS: <6 °C pH<2	Total # Containers
1	MW-5	12/15/09	0904	GW	112532GW1	X	X	X	X		X	X	X	X	X	X		7
2	MW-8	"	0946	"	2													
3	MW-12R	"	1052	"	3													
4	MW-11	"	1137	"	4													
5	MW2-4	"	0925	"	5													
6	MW-2	"	1035	"	6													9
7	MW-1	"	1140	"	7													7
8	MW-10R	"	1215	"	8													2
9	Trip Blank	"	—	D.I.	9													
10																		

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Robert Carpenter	12/15/09	14:48								12/15/09	1441

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

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

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.
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

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

Client: PBS+J	Project Name: HARDEE COUNTY LANDFILL	P.O. #	
Address	Client Contact: Greg Mudd	FAX	
	FCL Project Manager: J. Flowers	E-MAIL	
Phone	Requested Due Date 10 Day Standard OR	Rush Charges May Apply	
Sampled By (PRINT): Tommy Cross	Pick-Up Fee $	Vehicle Surcharge $	Sampling Fee $ X1
Sampler Signature	Date Sampled: 12/14/09		

GW - ground water DW - drinking water WW - wastewater
SW - surface water S - 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: Al, Fe, Hardness	Appendix I metals	TOC	Fecal Coliform	Ammonia, Phos	TN, TP, COD	SS, TDS, TOD	SO_4, NO_3	Chlorophyll a Epa 8011	COMMENTS	Total # Containers
1	SW-2	12/14/09	1045	SW	112344SW1	X	X	X	X		X	X	X	X	X	X	X	X	X	<6°C pH<2	
2	Trip Blank	1	—	DI	112344SW2								X								
3																					
4																					
5	Field Data:			pH	Cond.		Temp		D.O.							Turb					
6	SW-2			6.78	310 us		21.4°		3.83 mg/L							0.95 NTU					
7																					
8																					
9																					
10																					

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
							12/14/09	1335		12/14/09	1335

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

WHITE - Lab Copy To Be Scanned YELLOW - Client Copy