

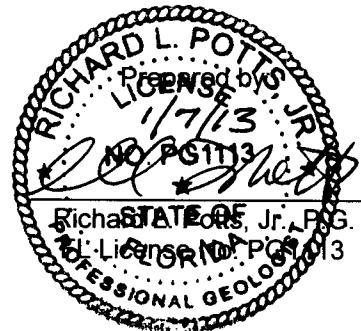
SUMTER COUNTY
(CLOSED) LANDFILL
QUARTERLY GROUNDWATER
MONITORING REPORT
Quarter IV (November) 2012

Prepared for:

SUMTER COUNTY
SOLID WASTE DEPARTMENT
SUMTER COUNTY, FLORIDA

Prepared by:

THE COLINAS GROUP, INC.
377 Maitland Avenue, Suite 2012
Altamonte Springs, Florida 32701



December 2012

Florida Department of Environmental Protection

3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767

Ground Water Monitoring Report Certification Form Rule 62-520.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Sumter County Closed Class I Landfill

Address 835 C.R. 529

City Lake Panasoffkee

Zip 33538

County Sumter

Telephone Number (352)-793-3368

E-mail address jackey.jackson@sumtercountyfl.gov

(2) WACS_Facility 53008

(3) DEP Permit Number 22926-004-SF

(4) Authorized Representative's Name Jackey Jackson Title Ass't. Director Public Works

Address 319 E. Anderson Avenue

City Bushnell

Zip 33513

County Sumter

Telephone Number (352)-793-0240

E-mail address jackey.jackson@sumtercountyfl.gov

(5) Type of Discharge NA

(6) Method of Discharge NA

CERTIFICATION

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

1-2-2013

Date

Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Name & DOH # The Colinas Group, Inc. / 870148G/3

Analytical Lab Organization DOH # E53076 E84589 E82574

Lab Name Advanced Environmental Laboratories, Inc.

Address 6601 Southport Parkway, Jacksonville, Florida 32216

Phone Number (904)-363-9350

E-mail Address msantiago@aellab.com

DER Form 62-520.900(2)

Effective April 14, 1994

1/13/2009m

THE COLINAS GROUP, INC.
HYDROGEOLOGISTS & ENGINEERS

December 21, 2012

Mr. John Morris, P.G.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Subj: Quarter IV (November) 2012 Groundwater Monitoring Report
Sumter County Closed Class I Landfill
Sumter County, Florida
FDEP Permit No. 22926-003-SF

Dear Mr. Morris:

On behalf of Sumter County Board of County Commissioners, The Colinas Group, Inc. (TCG) herewith submits one Electronic Data Deliverable and one (1) bound paper copy of the report prepared by TCG entitled:

**Sumter County (Closed) Landfill Quarterly Groundwater Monitoring Report,
Quarter IV (November) 2012**

The report was prepared and is submitted in satisfaction of part of the requirements of the Sumter County Closed Landfill Long-Term Care Permit.

If you have any questions concerning the contents of the report please do not hesitate to contact me at your convenience.

Very truly yours,
THE COLINAS GROUP, INC.
11/21/12 PG1113
Richard L. Potts, Jr., P.G.
State of Florida
Principal Consultant
Fl. P.G. Reg. No. 1113

cc: Mr. Jackey Jackson (Sumter County)
Ms. Denise Warnock (Sumter County)

**SUMTER COUNTY (CLOSED) LANDFILL
GROUNDWATER MONITORING REPORT
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2012**

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2. Laboratory Analytical Report
3. Field Sampling and Testing Logs
4. Chain-of-Custody Forms
5. Laboratory/Field Quality Control Reports
6. FDEP ADaPT/EDD Disc - (In Pocket)

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**Sumter County (Closed) Landfill
Quarterly Groundwater Monitoring Report
Quarter IV (November) 2012**

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter IV (November) 2012 sampling event at the Sumter County (Closed) Landfill near Lake Panasoffkee in Sumter County. The sampling event was completed in accordance with the quarterly water quality monitoring and reporting requirements of the closed landfill FDEP Long-Term Care Permit #22926-003-SF.

In accordance with Specific Condition 16d of the facility Long-Term Care Permit, sampling and analytical chemical parameters for this sampling event included the parameters listed in *40 CFR Part 258, Appendix I*. The expanded list of analytical parameters is required by permit for the fourth quarter of each year.

SAMPLING EVENT

The Quarter IV 2012 sampling event at the Sumter County Landfill occurred on November 19 - 20, 2012. Sampling was performed by TCG in accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOP) for Field Activities. Water samples collected from the facility groundwater monitoring wells were tested for the required field parameters. Monitoring wells were purged and the groundwater discharge allowed to stabilize prior to sample collection.

The results of field testing were recorded as part of the Field Reports (Attachment 3) and are listed in Table I. All samples were preserved and stored as required prior to shipment to the analytical laboratory.

Water table depth measurements in each facility groundwater monitoring well and piezometer were recorded on November 22, 2011. These measurements were used to develop the Groundwater Contour Map shown on Figure 1 (Attachment 1) for the uppermost receiving groundwater aquifer beneath the site. Depth to water table measurements and corresponding groundwater elevations are listed in Table II.

Laboratory analytical services were provided by Advanced Environmental Laboratories, Inc. (AEL) in accordance with the laboratory's NELAC and FDHRS Certification No. E53076, E84589, and E82574. The original analytical reports prepared by AEL are presented in Attachment 2 to this report. A summary of analytical results is presented on Table III.

RESULTS

Field Tested Parameters

Results of field testing completed at groundwater monitoring wells for the Quarter IV 2012 sampling event are summarized in Table I. Field tests were completed in strict accordance with the FDEP SOP requirements.

pH

The field testing results indicate pH of groundwater in the uppermost aquifer was within the FDEP secondary standard (6.5 - 8.5 pH units) at seven (7) of the nine (9) groundwater monitoring wells sampled during the November 2012 event. The nearly neutral to slightly basic pH values measured are consistent across the landfill property and appear normal considering the monitoring well screen intervals at and near the top of carbonate rocks and sediments.

One well (**MW-4B**) produced groundwater with a pH above the upper FDEP range at 9.11 pH units. This well has produced pH values above 8.5 since sampling of the well began in Quarter II of 2006. Monitoring well **MW-11** reported pH below the range at 6.19 pH units.

Fluid Temperature

Temperature of each water sample was measured in the field immediately following discharge into the flow cell used to accept flow from the purging pump. Temperature measurements of groundwater from the nine (9) monitoring wells varied through a narrow range, from a low of 23.66 C at well **MW-8** to 26.25 C at **MW-4A**.

Dissolved Oxygen

Dissolved oxygen (DO) exceeded the FDEP sampling guidance level of 20% saturation at four (4) of the nine (9) monitoring wells sampled, including the facility background monitoring well **MW-6A**. Most of these wells typically produce groundwater with dissolved oxygen levels above 20% saturation.

Specific Conductance

Specific conductance of groundwater samples collected during this sampling event are included in Table I. Specific conductance values varied through a relatively narrow range of 115 umhos/cm to 912 umhos/cm.

Turbidity

The FDEP recommends attainment of turbidity values less than 10 to 20 NTUs in groundwater samples obtained from monitoring wells. As shown in Table I, groundwater samples collected had measured turbidity values less than 20 NTUs at each of the nine (9) wells. Fluid turbidity exceeded 10 NTUs at wells **MW-6A** and **MW-9A**.

Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the Quarter IV 2012 sample set is presented in Table III. As shown, four (4) parameters were reported for certain monitoring wells at concentrations that exceed applicable regulatory levels. Exceeded analytical parameters were aluminum, iron, manganese and nitrate nitrogen.

Aluminum

Aluminum was reported in water samples from monitoring wells **MW-4B** and **MW-9A** at concentrations above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l. The highest aluminum concentration is reported for **MW-4B** at 490 ug/l.

Iron

Dissolved iron was detected in three (3) monitoring wells at concentrations above the FSDWS MCL of 300 ug/l. Iron was reported above the MCL at wells **MW-4**, **MW-9A** and **MW-10**. Iron was detected below 300 ug/l at one monitoring well and was not detected above the laboratory method detection limit at five (5) wells.

Manganese

Manganese was measured at a concentration above the FSDWS MCL of 50 ug/l in monitoring well **MW-9A** at 97 ug/l. Manganese was reported in five (5) other monitoring wells, including background well **MW-6A**, at low concentrations ranging from 0.26 ug/l to 24 ug/l.

Nitrate Nitrogen

Nitrate was reported above the 10 mg/l FPDWS MCL at monitoring well **MW-4A** at 12 mg/l. An elevated nitrate concentration, less than the MCL, is reported for background monitoring well **MW-6A** at 5.5 mg/l. Remaining detection wells reported nitrate at values less than the background level.

No other exceedance of a parameter regulatory concentration level was reported in the laboratory analytical results for samples from groundwater monitoring wells at the Sumter County Closed Landfill.

Other Significant Detected Parameters

Chloride concentrations reported for seven(7) of the nine (9) monitoring wells, including the facility background monitoring well **MW-6A**, appear consistent between individual wells and typical for natural shallow groundwaters in Florida. Chloride concentrations at detection wells **MW-4**, **MW-4A** and **MW-9A** (14 mg/l - 23 mg/l) appear slightly elevated as compared to the other wells. The SDWS MCL for chloride in groundwater is 250 mg/l.

Sodium also appears slightly higher at monitoring wells **MW-4**, **MW-4A** and **MW-9A** (23 mg/l - 36 mg/l) as compared to background and other detection wells. The PDWS MCL for sodium is 160 mg/l.

40 CFR Part 228 Appendix I Volatiles

Annual analyses for 40 CFR Part 258 Appendix I parameters were completed for this sampling event. As indicated on the attached laboratory reports of analyses from AEL and summarized in Table III, two Appendix I volatile organic compounds were detected above the laboratory method detection limits in groundwater samples from two of the facility groundwater monitoring wells.

MW-4B reported acetone at a low concentration of 41 ug/l; the Chapter 62-777, F.A.C. Groundwater Cleanup Target Level (GCTL) for acetone is 6,300 ug/l. Background well **MW-6A** reported carbon disulfide, a common laboratory contaminant, at a trace 0.12 ug/l; the GCTL for carbon disulfide is 700 ug/l.

SUMMARY

Chemical characteristics of groundwater monitored at the Sumter County Landfill are reported for the Quarter IV (November) 2012 sampling event. Exceedances of specific constituent regulatory maximum concentration levels (MCLs) for analytical constituents are reported at specific monitoring wells for aluminum, iron, manganese, and nitrate nitrogen.

Elevated **dissolved oxygen** (DO) levels were measured in four of the nine groundwater monitoring wells, including the facility background monitoring well **MW-6A** and up-gradient well **MW-8**. These wells routinely produce groundwater with elevated DO levels. Field sampling methods do not appear to be the source of elevated DO in collected water samples.

Aluminum was reported by the laboratory at concentrations above the FSDWS MCL (200 ug/l) at wells **MW-4B** and **MW-9A**. Aluminum has routinely been reported above the MCL in monitoring wells at the Sumter County closed landfill, including background well **MW-6A**. The most likely source of dissolved aluminum in groundwater is naturally-occurring aluminum-silicate clay minerals occurring near the top of rock throughout the landfill property.

Concentrations of **iron** slightly above the FSDWS MCL (300 ug/l) were reported for monitoring wells **MW-4**, **MW-9A** and **MW-10**. **Manganese** was reported above the FSDWS MCL (50 ug/l) at **MW-9A**. Both iron and manganese occur naturally in sediments and carbonate rocks penetrated by the monitoring wells.

Nitrate nitrogen was reported slightly above the FPDWS MCL (10 mg/l) at monitoring well **MW-4A** at 12 mg/l. Background well **MW-6A** continues to report elevated nitrate levels at values less than the MCL.

Frequency of detections of nitrate levels above the MCL at this well and at nearby **MW-4** appear to be declining, coincident with deactivation and removal of several septic tank systems formerly operating in the northwest portion of the landfill property. Concentrations of sodium and chloride, constituents commonly found elevated in septic tank discharges, also appear to be in decline at wells in this area of the landfill property.

Volatile organic compounds (VOCs) were analyzed for this monitoring event in accordance with the annual requirements of the landfill's Long-Term-Care Permit. Acetone was detected at one downgradient well (**MW-4B**) and carbon disulfide was detected at background well **MW-6A**, both at trace concentrations. These VOCs are known as common laboratory contaminants and the detections are considered suspect.

Considering the historical lack of significant VOC detections in groundwater at the landfill, we recommend that Sumter County consider requesting a minor permit modification from the FDEP to delete the requirement for annual VOC sampling and analysis specified in the landfill's Long-Term-Care Permit.

* * * * *

TABLE I
FIELD PARAMETER RESULTS SUMMARY
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2012

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	25.89	5.60	6.87	261	0.34
MW-4	26.04	0.61	7.40	520	3.45
MW-4A	26.25	0.51	7.15	618	4.00
MW-4B	25.61	6.74	9.11	115	8.52
MW-6A	24.68	6.91	7.84	255	12.4
MW-8	23.66	4.49	7.36	339	4.49
MW-9A	25.22	0.58	6.53	912	12.4
MW-10	24.66	0.35	6.87	636	8.26
MW-11	24.88	1.55	6.19	304	2.40

Notes: **Bold** lettering indicates:
 Exceedance of FDEP 20% saturation dissolved oxygen limit
 Exceedance of secondary standards pH range (6.5 - 8.5)
 Exceedance of FDEP-recommended turbidity (20 NTU)

TABLE II

**SUMMARY OF GROUNDWATER LEVELS
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2012**

Well No.	MP Elev. ^{1/} (ft. +NGVD)	Depth to Water ^{2/} (ft. - MP)	Groundwater Elevation (ft. +NGVD)
MW-1	70.10	24.39	45.71
MW-2	68.96	23.01	45.95
MW-2A	71.98	26.13	45.85
MW-4	70.33	24.51	45.82
MW-4A	75.49	29.72	45.77
MW-4B	73.49	27.79	45.70
MW-4C	70.88	25.20	45.68
MW-4D	73.35	27.58	45.77
MW-6A	77.48	31.25	46.23
MW-7	72.93	27.06	45.87
MW-8	68.63	21.95	46.68
MW-9	72.62	26.69	45.93
MW-9A	75.14	29.15	45.99
MW-10	68.14	22.09	46.05
MW-11	70.02	24.27	45.75

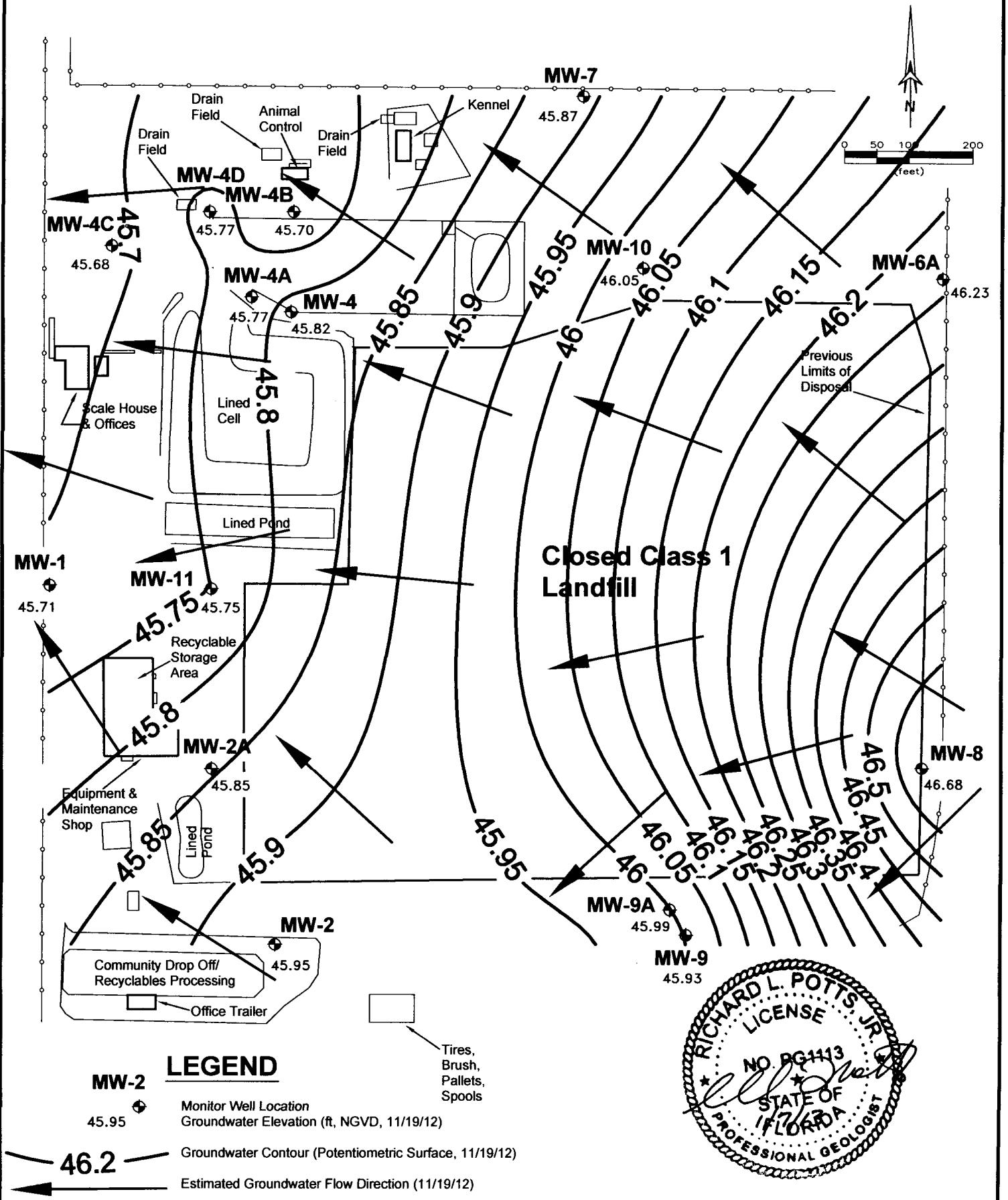
Notes: ^{1/} Measuring Point is top of PVC well casing.

^{2/} Water levels recorded on November 19, 2012

TABLE III
SUMMARY OF LABORATORY RESULTS
SUMTER COUNTY (CLOSED) LANDFILL
QUARTER IV (November) 2012

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	GCTL
Acetone	ug/l	BDL	BDL	BDL	41	BDL	BDL	BDL	BDL	BDL	6,300
Ammonia	mg/l	0.066	0.041	0.066	0.061	0.038	0.059	0.614	0.134	0.055	2.8
Aluminum	ug/l	BDL	BDL	BDL	490	BDL	BDL	250	140	BDL	200
Antimony	ug/l	1.1 V	0.58 V	0.24 V	0.21 V	0.16 V	0.10 V	0.25 V	3.4V	0.30 V	6
Arsenic	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.61	BDL	BDL	10
Barium	ug/l	13	7.1	12	4.3	2.6	3.6	13	14	4.8	2,000
Beryllium	ug/l	0.15	0.22	0.14	0.30	0.13	0.16	0.16	BDL	0.24	4
Cadmium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.74	0.44	1.8	5
Carbondisulf.	ug/l	BDL	BDL	BDL	BDL	0.12	BDL	BDL	BDL	BDL	700
Cobalt	ug/l	BDL	0.60	BDL	BDL	BDL	BDL	20	BDL	BDL	420
Copper	ug/l	1.0	1.7	0.66	0.75	0.51	0.25	1.8	0.63	1.4	1,000
Chloride	mg/l	5.0	14	23	4.1	8.1	8.0	21	7.2	3.6	250
Chromium	ug/l	0.84	1.8	1.4	3.0	5.3	3.2	3.8	0.72	1.4	100
Fluoride	mg/l	0.21	0.19	BDL	0.17	0.17	0.17	0.21	0.19	0.22	4
Gross Alpha	pCi/l	2.7 \pm 1.0	5.7 \pm 1.5	2.4 \pm 1.2	1.1 \pm 0.6	0.6 \pm 0.8	1.6 \pm 0.9	11.7 \pm 2.9	16.2 \pm 2.2	9.0 \pm 1.5	15
Iron	ug/l	BDL	730	BDL	43	BDL	BDL	1,500	420	BDL	300
Lead	ug/l	0.16	BDL	BDL	0.25	BDL	BDL	0.36	0.20	0.10	15
Manganese	ug/l	BDL	9.6	2.0	BDL	0.26	BDL	97	24	1.2	50
Mercury	ug/l	0.017	0.016	BDL	BDL	BDL	BDL	0.064	0.038	0.044	2
Nickel	ug/l	BDL	1.6	BDL	BDL	BDL	BDL	7.4	BDL	BDL	100
Nitrate, as N	mg/l	1.5	4.4	12	2.1	5.5	2.0	0.37	1.5	4.8	10
pH	s.u.	6.87	7.4	7.15	9.11	7.84	7.36	6.53	6.87	6.19	6.5-8.5
Radium -226	pCi/l	1.2 \pm 0.7	2.1 \pm 0.8	1.3 \pm 0.6	<0.6 \pm 0.4	<0.9 \pm 0.6	<0.9 \pm 0.7	3.9 \pm 1.2	2.4 \pm 0.8	2.9 \pm 0.9	—
Radium- 228	pCi/l	<1.0 \pm 0.7	<1.0 \pm 0.8	<1.0 \pm 0.6	<1.0 \pm 0.7	<1.0 \pm 0.7	<1.0 \pm 0.7	<1.0 \pm 0.7	<1.0 \pm 0.8	<1.0 \pm 0.8	—
Selenium	ug/l	BDL	50								
Silver	ug/l	BDL	0.079	100							
Sodium	mg/l	2.7	36	23	8.8	3.0	5.2	21	8.1	7.5	160
TDS	mg/l	150	290	350	70	120	150	400	350	190	500
Thallium	ug/l	BDL	0.10	0.20	BDL	BDL	BDL	0.18	0.081	0.19	2
Vanadium	ug/l	0.93	12	6.0	17	7.8	8.5	2.4	11	8.1	49
Zinc	ug/l	15	15	14	14	14	15	20	15	17	5,000

Notes: 1). BDL means below laboratory method detection limit
 2). **Bold lettering** indicates result exceeds GCTL
 3). (V) indicates constituent found in laboratory method blank
 4). GCTL is Chapter 62-777, F.A.C. Groundwater Cleanup Target Level





**Advanced
Environmental Laboratories, Inc.**

Advanced Environmental Laboratories, Inc.
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone: (407)937-1594
Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761003	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-2	Date Collected:	11/19/12 12:40		

Sample Description:	Location:
---------------------	-----------

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	261	umhos/cm		1			11/19/2012 12:20	A^
Dissolved Oxygen	5.6	mg/L		1			11/19/2012 12:20	A^
Groundwater Elevation	46.12	feet		1			11/19/2012 12:20	A^
Temperature	25.89	°C		1			11/19/2012 12:20	A^
Turbidity	0.34	NTU		1			11/19/2012 12:20	A^
pH	6.87	pH unit		1			11/19/2012 12:20	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis, Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:17	J
Barium	13	ug/L	I	1	2.0	0.28	11/28/2012 15:17	J
Beryllium	0.15	ug/L	I	1	0.30	0.13	11/28/2012 15:17	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:17	J
Chromium	0.84	ug/L	I	1	4.0	0.50	11/28/2012 15:17	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:17	J
Iron	38	ug/L	U	1	200	38	11/28/2012 15:17	J
Manganese	0.24	ug/L	U	1	1.0	0.24	11/28/2012 15:17	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:17	J
Sodium	2.7	mg/L		1	0.20	0.026	11/28/2012 15:17	J
Vanadium	0.93	ug/L	I	1	1.5	0.18	11/28/2012 15:17	J
Zinc	15	ug/L		1	10	2.0	11/28/2012 15:17	J
Analysis Desc: SW846 6020B								
Analysis, Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	1.1	ug/L	V	1	0.60	0.073	11/30/2012 14:37	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 14:37	J
Copper	1.0	ug/L	I	1	7.0	0.10	11/30/2012 14:37	J
Lead	0.16	ug/L	I	1	0.70	0.076	11/30/2012 14:37	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 14:37	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 14:37	J
Thallium	0.067	ug/L	U	1	0.20	0.067	11/30/2012 14:37	J
Analysis Desc: SW846 7470A								
Analysis, Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.017	ug/L	I	1	0.10	0.014	11/28/2012 13:15	J

Report ID: 239679 - 1069758

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CERTIFICATE OF ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Advanced Environmental Laboratories, Inc.





**Advanced
Environmental Laboratories, Inc.**

Advanced Environmental Laboratories, Inc.
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone: (407)937-1594
Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761003**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-2**

Date Collected: 11/19/12 12:40

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMOVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 13:40	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 13:40	M
Tetrachloro-m-xylene (S)	91	%		1	40.3-190		11/21/2012 13:40	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 04:23	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 04:23	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 04:23	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 04:23	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 04:23	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 04:23	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 04:23	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 04:23	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 04:23	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 04:23	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 04:23	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 04:23	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 04:23	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 04:23	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 04:23	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 04:23	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 04:23	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 04:23	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 04:23	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 04:23	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 04:23	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 04:23	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 04:23	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 04:23	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 04:23	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 04:23	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 04:23	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 04:23	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 04:23	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761003	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-2	Date Collected:	11/19/12 12:40		

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 04:23	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 04:23	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 04:23	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 04:23	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 04:23	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 04:23	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 04:23	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 04:23	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 04:23	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 04:23	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 04:23	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 04:23	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 04:23	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 04:23	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 04:23	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 04:23	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 04:23	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 04:23	J
1,2-Dichloroethane-d4 (S)	111	%		1	80-120		11/29/2012 04:23	
Toluene-d8 (S)	99	%		1	88-110		11/29/2012 04:23	
Bromofluorobenzene (S)	111	%		1	86-115		11/29/2012 04:23	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	5.0	mg/L		1	5.0	0.50	11/20/2012 16:41	A
Fluoride	0.21	mg/L	I	1	0.50	0.12	11/20/2012 16:41	A
Nitrate	1.5	mg/L		1	0.50	0.053	11/20/2012 16:41	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.066	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	150	mg/L		1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761004	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-4	Date Collected:	11/20/12 12:07		

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	520	umhos/cm		1			11/20/2012 11:46	A^
Dissolved Oxygen	0.61	mg/L		1			11/20/2012 11:46	A^
Groundwater Elevation	45.81	feet		1			11/20/2012 11:46	A^
Temperature	26.04	°C		1			11/20/2012 11:46	A^
Turbidity	3.45	NTU		1			11/20/2012 11:46	A^
pH	7.4	pH unit		1			11/20/2012 11:46	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis, Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:21	J
Barium	7.1	ug/L		1	2.0	0.28	11/28/2012 15:21	J
Beryllium	0.22	ug/L	I	1	0.30	0.13	11/28/2012 15:21	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:21	J
Chromium	1.8	ug/L	I	1	4.0	0.50	11/28/2012 15:21	J
Cobalt	0.60	ug/L	I	1	4.0	0.60	11/28/2012 15:21	J
Iron	730	ug/L		1	200	38	11/28/2012 15:21	J
Manganese	9.6	ug/L		1	1.0	0.24	11/28/2012 15:21	J
Nickel	1.6	ug/L	I	1	6.5	1.1	11/28/2012 15:21	J
Sodium	36	mg/L		1	0.20	0.026	11/28/2012 15:21	J
Vanadium	12	ug/L		1	1.5	0.18	11/28/2012 15:21	J
Zinc	15	ug/L		1	10	2.0	11/28/2012 15:21	J
Analysis Desc: SW846 6020B								
Analysis, Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	0.58	ug/L	I,V	1	0.60	0.073	11/30/2012 14:47	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 14:47	J
Copper	1.7	ug/L	I	1	7.0	0.10	11/30/2012 14:47	J
Lead	0.076	ug/L	U	1	0.70	0.076	11/30/2012 14:47	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 14:47	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 14:47	J
Thallium	0.10	ug/L	I	1	0.20	0.067	11/30/2012 14:47	J
Analysis Desc: SW846 7470A								
Analysis, Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.016	ug/L	I	1	0.10	0.014	11/28/2012 13:23	J

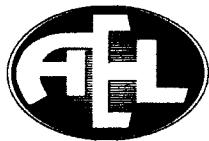
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761004** Date Received: 11/20/12 15:12 Matrix: Water
Sample ID: **MW-4** Date Collected: 11/20/12 12:07

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMICVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 14:05	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 14:05	M
Tetrachloro-m-xylene (S)	95	%		1	40.3-190		11/21/2012 14:05	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 05:09	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:09	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 05:09	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 05:09	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 05:09	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:09	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 05:09	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 05:09	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 05:09	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:09	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:09	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 05:09	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 05:09	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 05:09	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 05:09	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 05:09	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 05:09	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 05:09	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 05:09	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 05:09	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 05:09	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 05:09	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 05:09	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 05:09	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 05:09	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 05:09	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 05:09	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:09	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 05:09	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761004**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-4**

Date Collected: 11/20/12 12:07

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 05:09	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 05:09	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 05:09	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 05:09	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 05:09	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 05:09	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 05:09	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 05:09	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 05:09	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 05:09	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 05:09	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 05:09	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 05:09	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 05:09	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:09	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 05:09	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 05:09	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 05:09	J
1,2-Dichloroethane-d4 (S)	110	%		1	80-120		11/29/2012 05:09	
Toluene-d8 (S)	100	%		1	88-110		11/29/2012 05:09	
Bromofluorobenzene (S)	112	%		1	86-115		11/29/2012 05:09	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	14	mg/L		1	5.0	0.50	11/20/2012 17:27	A
Fluoride	0.19	mg/L	I	1	0.50	0.12	11/20/2012 17:27	A
Nitrate	4.4	mg/L		1	0.50	0.053	11/20/2012 17:27	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.041	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	290	mg/L		1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761005	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-4A	Date Collected:	11/20/12 11:25		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance Analytical Method: DISRES

Conductance	618	umhos/cm	1			11/20/2012 11:09	A^
Dissolved Oxygen	0.51	mg/L	1			11/20/2012 11:09	A^
Groundwater Elevation	45.99	feet	1			11/20/2012 11:09	A^
Temperature	26.25	°C	1			11/20/2012 11:09	A^
Turbidity	4	NTU	1			11/20/2012 11:09	A^
pH	7.15	pH unit	1			11/20/2012 11:09	A^

METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:26	J
Barium	12	ug/L	U	1	2.0	0.28	11/28/2012 15:26	J
Beryllium	0.14	ug/L	I	1	0.30	0.13	11/28/2012 15:26	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:26	J
Chromium	1.4	ug/L	I	1	4.0	0.50	11/28/2012 15:26	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:26	J
Iron	38	ug/L	U	1	200	38	11/28/2012 15:26	J
Manganese	2.0	ug/L	U	1	1.0	0.24	11/28/2012 15:26	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:26	J
Sodium	23	mg/L	U	1	0.20	0.026	11/28/2012 15:26	J
Vanadium	6.0	ug/L	U	1	1.5	0.18	11/28/2012 15:26	J
Zinc	14	ug/L	U	1	10	2.0	11/28/2012 15:26	J

Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	0.24	ug/L	I,V	1	0.60	0.073	11/30/2012 14:56	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 14:56	J
Copper	0.66	ug/L	I	1	7.0	0.10	11/30/2012 14:56	J
Lead	0.076	ug/L	U	1	0.70	0.076	11/30/2012 14:56	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 14:56	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 14:56	J
Thallium	0.20	ug/L	U	1	0.20	0.067	11/30/2012 14:56	J

Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A

Analysis, Water

Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	11/28/2012 13:25	J
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761005**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 11/20/12 11:25

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMICVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 14:29	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 14:29	M
Tetrachloro-m-xylene (S)	87	%		1	40.3-190		11/21/2012 14:29	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 05:54	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:54	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 05:54	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 05:54	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 05:54	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:54	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 05:54	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 05:54	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 05:54	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:54	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:54	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 05:54	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 05:54	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 05:54	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 05:54	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 05:54	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 05:54	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 05:54	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 05:54	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 05:54	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 05:54	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 05:54	J
Carbon Disulfide	0.39	ug/L	I	1	1.0	0.34	11/29/2012 05:54	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 05:54	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 05:54	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 05:54	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 05:54	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:54	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 05:54	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761005**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 11/20/12 11:25

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 05:54	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 05:54	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 05:54	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 05:54	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 05:54	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 05:54	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 05:54	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 05:54	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 05:54	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 05:54	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 05:54	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 05:54	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 05:54	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 05:54	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 05:54	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 05:54	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 05:54	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 05:54	J
1,2-Dichloroethane-d4 (S)	110	%		1	80-120		11/29/2012 05:54	
Toluene-d8 (S)	100	%		1	88-110		11/29/2012 05:54	
Bromofluorobenzene (S)	110	%		1	86-115		11/29/2012 05:54	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	23	mg/L		1	5.0	0.50	11/21/2012 10:14	A
Fluoride	0.12	mg/L	U	1	0.50	0.12	11/21/2012 10:14	A
Nitrate	12	mg/L		2	1.0	0.11	11/20/2012 20:35	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.066	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	350	mg/L		1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761006**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-4B**

Date Collected: 11/20/12 10:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	115	umhos/cm		1			11/20/2012 10:15	A^
Dissolved Oxygen	6.74	mg/L		1			11/20/2012 10:15	A^
Groundwater Elevation	46.02	feet		1			11/20/2012 10:15	A^
Temperature	25.61	°C		1			11/20/2012 10:15	A^
Turbidity	8.52	NTU		1			11/20/2012 10:15	A^
pH	9.11	pH unit		1			11/20/2012 10:15	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis,Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	490	ug/L		1	200	61	11/28/2012 15:31	J
Barium	4.3	ug/L		1	2.0	0.28	11/28/2012 15:31	J
Beryllium	0.30	ug/L	I	1	0.30	0.13	11/28/2012 15:31	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:31	J
Chromium	3.0	ug/L	I	1	4.0	0.50	11/28/2012 15:31	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:31	J
Iron	43	ug/L	I	1	200	38	11/28/2012 15:31	J
Manganese	0.24	ug/L	U	1	1.0	0.24	11/28/2012 15:31	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:31	J
Sodium	8.8	mg/L		1	0.20	0.026	11/28/2012 15:31	J
Vanadium	17	ug/L		1	1.5	0.18	11/28/2012 15:31	J
Zinc	14	ug/L		1	10	2.0	11/28/2012 15:31	J
Analysis Desc: SW846 6020B								
Analysis,Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	0.21	ug/L	I,V	1	0.60	0.073	11/30/2012 15:05	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 15:05	J
Copper	0.75	ug/L	I	1	7.0	0.10	11/30/2012 15:05	J
Lead	0.25	ug/L	I	1	0.70	0.076	11/30/2012 15:05	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 15:05	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 15:05	J
Thallium	0.067	ug/L	U	1	0.20	0.067	11/30/2012 15:05	J
Analysis Desc: SW846 7470A								
Analysis,Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.014	ug/L		U	1	0.10	0.014	11/28/2012 13:27

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761006	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-4B	Date Collected:	11/20/12 10:30		

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
Analytical Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 14:53	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 14:53	M
Tetrachloro-m-xylene (S)	101	%		1	40.3-190		11/21/2012 14:53	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 06:40	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 06:40	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 06:40	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 06:40	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 06:40	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 06:40	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 06:40	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 06:40	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 06:40	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 06:40	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 06:40	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 06:40	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 06:40	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 06:40	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 06:40	J
Acetone	41	ug/L	I	1	5.0	3.3	11/29/2012 06:40	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 06:40	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 06:40	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 06:40	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 06:40	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 06:40	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 06:40	J
Carbon Disulfide	0.56	ug/L	I	1	1.0	0.34	11/29/2012 06:40	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 06:40	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 06:40	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 06:40	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 06:40	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 06:40	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 06:40	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761006	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-4B	Date Collected:	11/20/12 10:30		

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 06:40	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 06:40	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 06:40	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 06:40	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 06:40	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 06:40	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 06:40	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 06:40	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 06:40	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 06:40	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 06:40	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 06:40	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 06:40	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 06:40	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 06:40	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 06:40	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 06:40	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 06:40	J
1,2-Dichloroethane-d4 (S)	110	%		1	80-120		11/29/2012 06:40	
Toluene-d8 (S)	100	%		1	88-110		11/29/2012 06:40	
Bromofluorobenzene (S)	113	%		1	86-115		11/29/2012 06:40	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	4.1	mg/L	I	1	5.0	0.50	11/20/2012 20:58	A
Fluoride	0.17	mg/L	I	1	0.50	0.12	11/20/2012 20:58	A
Nitrate	2.1	mg/L		1	0.50	0.053	11/20/2012 20:58	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.061	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	70	mg/L		1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761007	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-6A	Date Collected:	11/20/12 13:10		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance Analytical Method: DISRES

Conductance	255	umhos/cm	1			11/20/2012 12:57	A ^a
Dissolved Oxygen	6.91	mg/L	1			11/20/2012 12:57	A ^a
Groundwater Elevation	46.39	feet	1			11/20/2012 12:57	A ^a
Temperature	24.68	°C	1			11/20/2012 12:57	A ^a
Turbidity	12.4	NTU	1			11/20/2012 12:57	A ^a
pH	7.84	pH unit	1			11/20/2012 12:57	A ^a

METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:36	J
Barium	2.6	ug/L		1	2.0	0.28	11/28/2012 15:36	J
Beryllium	0.13	ug/L	I	1	0.30	0.13	11/28/2012 15:36	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:36	J
Chromium	5.3	ug/L		1	4.0	0.50	11/28/2012 15:36	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:36	J
Iron	38	ug/L	U	1	200	38	11/28/2012 15:36	J
Manganese	0.26	ug/L	I	1	1.0	0.24	11/28/2012 15:36	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:36	J
Sodium	3.0	mg/L		1	0.20	0.026	11/28/2012 15:36	J
Vanadium	7.8	ug/L		1	1.5	0.18	11/28/2012 15:36	J
Zinc	14	ug/L		1	10	2.0	11/28/2012 15:36	J

Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	0.16	ug/L	I,V	1	0.60	0.073	11/30/2012 15:14	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 15:14	J
Copper	0.51	ug/L	I	1	7.0	0.10	11/30/2012 15:14	J
Lead	0.076	ug/L	U	1	0.70	0.076	11/30/2012 15:14	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 15:14	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 15:14	J
Thallium	0.067	ug/L	U	1	0.20	0.067	11/30/2012 15:14	J

Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A

Analysis, Water

Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	11/28/2012 13:30	J
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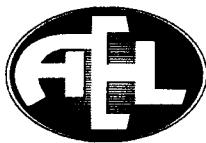
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761007**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-6A**

Date Collected: 11/20/12 13:10

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMOVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 15:17	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 15:17	M
Tetrachloro-m-xylene (S)	97	%		1	40.3-190		11/21/2012 15:17	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 07:26	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 07:26	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 07:26	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 07:26	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 07:26	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 07:26	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 07:26	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 07:26	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 07:26	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 07:26	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 07:26	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 07:26	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 07:26	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 07:26	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 07:26	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 07:26	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 07:26	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 07:26	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 07:26	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 07:26	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 07:26	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 07:26	J
Carbon Disulfide	0.62	ug/L	I	1	1.0	0.34	11/29/2012 07:26	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 07:26	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 07:26	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 07:26	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 07:26	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 07:26	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 07:26	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761007	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-6A	Date Collected:	11/20/12 13:10		

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 07:26	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 07:26	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 07:26	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 07:26	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 07:26	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 07:26	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 07:26	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 07:26	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 07:26	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 07:26	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 07:26	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 07:26	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 07:26	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 07:26	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 07:26	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 07:26	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 07:26	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 07:26	J
1,2-Dichloroethane-d4 (S)	109	%		1	80-120		11/29/2012 07:26	
Toluene-d8 (S)	98	%		1	88-110		11/29/2012 07:26	
Bromofluorobenzene (S)	112	%		1	86-115		11/29/2012 07:26	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	8.1	mg/L		1	5.0	0.50	11/20/2012 21:21	A
Fluoride	0.17	mg/L	I	1	0.50	0.12	11/20/2012 21:21	A
Nitrate	5.5	mg/L		1	0.50	0.053	11/20/2012 21:21	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.038	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	120	mg/L		1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761008	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-8	Date Collected:	11/19/12 13:24		

Sample Description:	Location:
---------------------	-----------

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance								
Conductance	339	umhos/cm		1			11/19/2012 13:03	A^
Dissolved Oxygen	4.49	mg/L		1			11/19/2012 13:03	A^
Groundwater Elevation	47.31	feet		1			11/19/2012 13:03	A^
Temperature	23.66	°C		1			11/19/2012 13:03	A^
Turbidity	0.22	NTU		1			11/19/2012 13:03	A^
pH	7.36	pH unit		1			11/19/2012 13:03	A^
METALS								
Analysis Desc: SW846 6010B								
Analysis, Water								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6010								
Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:41	J
Barium	3.6	ug/L		1	2.0	0.28	11/28/2012 15:41	J
Beryllium	0.16	ug/L	I	1	0.30	0.13	11/28/2012 15:41	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:41	J
Chromium	3.2	ug/L	I	1	4.0	0.50	11/28/2012 15:41	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:41	J
Iron	38	ug/L	U	1	200	38	11/28/2012 15:41	J
Manganese	0.24	ug/L	U	1	1.0	0.24	11/28/2012 15:41	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:41	J
Sodium	5.2	mg/L		1	0.20	0.026	11/28/2012 15:41	J
Vanadium	8.5	ug/L		1	1.5	0.18	11/28/2012 15:41	J
Zinc	15	ug/L		1	10	2.0	11/28/2012 15:41	J
Analysis Desc: SW846 6020B								
Analysis, Total								
Preparation Method: SW-846 3010A								
Analytical Method: SW-846 6020								
Antimony	0.10	ug/L	I,V	1	0.60	0.073	11/30/2012 15:24	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 15:24	J
Copper	0.25	ug/L	I	1	7.0	0.10	11/30/2012 15:24	J
Lead	0.076	ug/L	U	1	0.70	0.076	11/30/2012 15:24	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 15:24	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 15:24	J
Thallium	0.067	ug/L	U	1	0.20	0.067	11/30/2012 15:24	J
Analysis Desc: SW846 7470A								
Analysis, Water								
Preparation Method: SW-846 7470A								
Analytical Method: SW-846 7470A								
Mercury	0.014	ug/L		1	0.10	0.014	11/28/2012 13:32	J

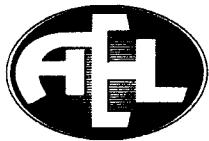
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761008	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-8	Date Collected:	11/19/12 13:24		

Sample Description:	Location:
---------------------	-----------

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMICVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
Preparation Method: SW-846 8011								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 15:42	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 15:42	M
Tetrachloro-m-xylene (S)	100	%		1	40.3-190		11/21/2012 15:42	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 17:05	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 17:05	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 17:05	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 17:05	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 17:05	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 17:05	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 17:05	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 17:05	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 17:05	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 17:05	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 17:05	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 17:05	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 17:05	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 17:05	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 17:05	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 17:05	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 17:05	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 17:05	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 17:05	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 17:05	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 17:05	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 17:05	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 17:05	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 17:05	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 17:05	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 17:05	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 17:05	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 17:05	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 17:05	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761008**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-8**

Date Collected: 11/19/12 13:24

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted	Adjusted	Analyzed	Lab
					PQL	MDL		
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 17:05	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 17:05	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 17:05	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 17:05	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 17:05	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 17:05	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 17:05	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 17:05	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 17:05	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 17:05	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 17:05	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 17:05	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 17:05	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 17:05	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 17:05	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 17:05	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 17:05	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 17:05	J
1,2-Dichloroethane-d4 (S)	109	%		1	80-120		11/29/2012 17:05	
Toluene-d8 (S)	98	%		1	88-110		11/29/2012 17:05	
Bromofluorobenzene (S)	112	%		1	86-115		11/29/2012 17:05	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	8.0	mg/L		1	5.0	0.50	11/20/2012 17:04	A
Fluoride	0.17	mg/L	I	1	0.50	0.12	11/20/2012 17:04	A
Nitrate	2.0	mg/L		1	0.50	0.053	11/20/2012 17:04	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.059	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	150	mg/L		1	10	10	11/23/2012 08:30	A
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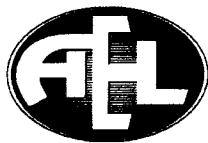
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761009	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-9A	Date Collected:	11/20/12 09:43		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance Analytical Method: DISRES

Conductance	912	umhos/cm	1			11/20/2012 09:27	A^
Dissolved Oxygen	0.58	mg/L	1			11/20/2012 09:27	A^
Groundwater Elevation	45.14	feet	1			11/20/2012 09:27	A^
Temperature	25.22	°C	1			11/20/2012 09:27	A^
Turbidity	12.4	NTU	1			11/20/2012 09:27	A^
pH	6.53	pH unit	1			11/20/2012 09:27	A^

METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	250	ug/L	1	200	61	11/28/2012 15:45	J
Barium	13	ug/L	1	2.0	0.28	11/28/2012 15:45	J
Beryllium	0.16	ug/L	I	0.30	0.13	11/28/2012 15:45	J
Cadmium	0.74	ug/L	1	0.60	0.32	11/28/2012 15:45	J
Chromium	3.8	ug/L	I	4.0	0.50	11/28/2012 15:45	J
Cobalt	20	ug/L	1	4.0	0.60	11/28/2012 15:45	J
Iron	1500	ug/L	1	200	38	11/28/2012 15:45	J
Manganese	97	ug/L	1	1.0	0.24	11/28/2012 15:45	J
Nickel	7.4	ug/L	1	6.5	1.1	11/28/2012 15:45	J
Sodium	21	mg/L	1	0.20	0.026	11/28/2012 15:45	J
Vanadium	2.4	ug/L	1	1.5	0.18	11/28/2012 15:45	J
Zinc	20	ug/L	1	10	2.0	11/28/2012 15:45	J

Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	0.25	ug/L	I,V	1	0.60	0.073	11/30/2012 16:19	J
Arsenic	0.61	ug/L	I	1	1.0	0.36	11/30/2012 16:19	J
Copper	1.8	ug/L	I	1	7.0	0.10	11/30/2012 16:19	J
Lead	0.36	ug/L	I	1	0.70	0.076	11/30/2012 16:19	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 16:19	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 16:19	J
Thallium	0.18	ug/L	I	1	0.20	0.067	11/30/2012 16:19	J

Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A

Analysis, Water

Analytical Method: SW-846 7470A

Mercury	0.064	ug/L	I	1	0.10	0.014	11/28/2012 13:34	J
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Phone: (407)937-1594

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761009**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-9A**

Date Collected: 11/20/12 09:43

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 16:06	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 16:06	M
Tetrachloro-m-xylene (S)	115	%		1	40.3-190		11/21/2012 16:06	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 16:20	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 16:20	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 16:20	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 16:20	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 16:20	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 16:20	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 16:20	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 16:20	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 16:20	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 16:20	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 16:20	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 16:20	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 16:20	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 16:20	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 16:20	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 16:20	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 16:20	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 16:20	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 16:20	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 16:20	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 16:20	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 16:20	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 16:20	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 16:20	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 16:20	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 16:20	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 16:20	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 16:20	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 16:20	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761009**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-9A**

Date Collected: 11/20/12 09:43

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 16:20	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 16:20	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 16:20	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 16:20	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 16:20	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 16:20	J
Tetrachloroethylene (PCE)	0.59	ug/L	U,J4	1	1.0	0.59	11/29/2012 16:20	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 16:20	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 16:20	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 16:20	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 16:20	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 16:20	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 16:20	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 16:20	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 16:20	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 16:20	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 16:20	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 16:20	J
1,2-Dichloroethane-d4 (S)	110	%		1	80-120		11/29/2012 16:20	
Toluene-d8 (S)	98	%		1	88-110		11/29/2012 16:20	
Bromofluorobenzene (S)	113	%		1	86-115		11/29/2012 16:20	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	21	mg/L	1	5.0	0.50	11/20/2012 21:45	A
Fluoride	0.21	mg/L	1	0.50	0.12	11/20/2012 21:45	A
Nitrate	0.37	mg/L	1	0.50	0.053	11/20/2012 21:45	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.614	mg/L	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	400	mg/L	1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761001	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-10	Date Collected:	11/19/12 14:08		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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FIELD PARAMETERS

Analysis Desc: FIELD - Conductance Analytical Method: DISRES

Conductance	636	umhos/cm	1			11/19/2012 13:47	A^
Dissolved Oxygen	0.35	mg/L	1			11/19/2012 13:47	A^
Groundwater Elevation	45.71	feet	1			11/19/2012 13:47	A^
Temperature	24.66	°C	1			11/19/2012 13:47	A^
Turbidity	8.26	NTU	1			11/19/2012 13:47	A^
pH	6.87	pH unit	1			11/19/2012 13:47	A^

METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	140	ug/L	I	1	200	61	11/28/2012 14:30	J
Barium	14	ug/L		1	2.0	0.28	11/28/2012 14:30	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/28/2012 14:30	J
Cadmium	0.44	ug/L	I	1	0.60	0.32	11/28/2012 14:30	J
Chromium	0.72	ug/L	I	1	4.0	0.50	11/28/2012 14:30	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 14:30	J
Iron	420	ug/L		1	200	38	11/28/2012 14:30	J
Manganese	24	ug/L		1	1.0	0.24	11/28/2012 14:30	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 14:30	J
Sodium	8.1	mg/L		1	0.20	0.026	11/28/2012 14:30	J
Vanadium	11	ug/L		1	1.5	0.18	11/28/2012 14:30	J
Zinc	15	ug/L		1	10	2.0	11/28/2012 14:30	J

Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	3.4	ug/L	V	1	0.60	0.073	11/30/2012 14:28	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 14:28	J
Copper	0.63	ug/L	I	1	7.0	0.10	11/30/2012 14:28	J
Lead	0.20	ug/L	I	1	0.70	0.076	11/30/2012 14:28	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 14:28	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 14:28	J
Thallium	0.081	ug/L	I	1	0.20	0.067	11/30/2012 14:28	J

Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A

Analysis, Water

Analytical Method: SW-846 7470A

Mercury	0.038	ug/L	I	1	0.10	0.014	11/28/2012 13:00	J
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761001	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	MW-10	Date Collected:	11/19/12 14:08		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 12:52	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 12:52	M
Tetrachloro-m-xylene (S)	102	%		1	40.3-190		11/21/2012 12:52	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 02:52	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:52	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 02:52	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 02:52	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 02:52	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:52	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 02:52	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 02:52	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 02:52	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:52	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:52	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 02:52	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 02:52	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 02:52	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 02:52	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 02:52	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 02:52	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 02:52	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 02:52	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 02:52	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 02:52	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 02:52	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 02:52	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 02:52	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 02:52	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 02:52	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 02:52	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:52	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 02:52	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761001**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-10**

Date Collected: 11/19/12 14:08

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 02:52	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 02:52	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 02:52	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 02:52	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 02:52	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 02:52	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 02:52	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 02:52	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 02:52	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 02:52	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 02:52	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 02:52	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 02:52	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 02:52	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:52	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 02:52	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 02:52	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 02:52	J
1,2-Dichloroethane-d4 (S)	109	%		1	80-120		11/29/2012 02:52	
Toluene-d8 (S)	99	%		1	88-110		11/29/2012 02:52	
Bromofluorobenzene (S)	113	%		1	86-115		11/29/2012 02:52	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	7.2	mg/L	1	5.0	0.50	11/20/2012 15:54	A
Fluoride	0.19	mg/L	I	1	0.50	0.12	11/20/2012 15:54
Nitrate	1.5	mg/L	1	0.50	0.053	11/20/2012 15:54	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.134	mg/L	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	350	mg/L	1	10	10	11/23/2012 08:30	A
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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761002** Date Received: 11/20/12 15:12 Matrix: Water
Sample ID: **MW-11** Date Collected: 11/19/12 11:48

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance Analytical Method: DISRES								
Conductance	304	umhos/cm		1			11/19/2012 11:27	A^
Dissolved Oxygen	1.55	mg/L		1			11/19/2012 11:27	A^
Groundwater Elevation	45.94	feet		1			11/19/2012 11:27	A^
Temperature	24.88	°C		1			11/19/2012 11:27	A^
Turbidity	2.4	NTU		1			11/19/2012 11:27	A^
pH	6.19	pH unit		1			11/19/2012 11:27	A^
METALS								
Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A								
Analysis,Water Analytical Method: SW-846 6010								
Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:12	J
Barium	4.8	ug/L		1	2.0	0.28	11/28/2012 15:12	J
Beryllium	0.24	ug/L	I	1	0.30	0.13	11/28/2012 15:12	J
Cadmium	1.8	ug/L		1	0.60	0.32	11/28/2012 15:12	J
Chromium	1.4	ug/L	I	1	4.0	0.50	11/28/2012 15:12	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:12	J
Iron	38	ug/L	U	1	200	38	11/28/2012 15:12	J
Manganese	1.2	ug/L		1	1.0	0.24	11/28/2012 15:12	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:12	J
Sodium	7.5	mg/L		1	0.20	0.026	11/28/2012 15:12	J
Vanadium	8.1	ug/L		1	1.5	0.18	11/28/2012 15:12	J
Zinc	17	ug/L		1	10	2.0	11/28/2012 15:12	J
Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A								
Analysis,Total Analytical Method: SW-846 6020								
Antimony	0.30	ug/L	I,V	1	0.60	0.073	11/30/2012 13:23	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 13:23	J
Copper	1.4	ug/L	I	1	7.0	0.10	11/30/2012 13:23	J
Lead	0.10	ug/L	I	1	0.70	0.076	11/30/2012 13:23	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 13:23	J
Silver	0.079	ug/L	I	1	0.30	0.059	11/30/2012 13:23	J
Thallium	0.19	ug/L	I	1	0.20	0.067	11/30/2012 13:23	J
Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A								
Analysis,Water Analytical Method: SW-846 7470A								
Mercury	0.044	ug/L	I	1	0.10	0.014	11/28/2012 13:13	J

Report ID: 239679 - 1069758

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Advanced Environmental Laboratories, Inc

528 S. North Lake Blvd, Suite 1016

Altamonte Springs, FL 32701

Phone: (407)937-1594

Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761002**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-11**

Date Collected: 11/19/12 11:48

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water								
1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 13:16	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 13:16	M
Tetrachloro-m-xylene (S)	87	%		1	40.3-190		11/21/2012 13:16	
VOLATILES								
Analysis Desc: 8260C Analysis, Water								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 03:38	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 03:38	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 03:38	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 03:38	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 03:38	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 03:38	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 03:38	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 03:38	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 03:38	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 03:38	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 03:38	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 03:38	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 03:38	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 03:38	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 03:38	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 03:38	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 03:38	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 03:38	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 03:38	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 03:38	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 03:38	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 03:38	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 03:38	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 03:38	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 03:38	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 03:38	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2012 03:38	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 03:38	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 03:38	J

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528 S. North Lake Blvd, Suite 1016
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Phone: (407)937-1594
Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761002**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **MW-11**

Date Collected: 11/19/12 11:48

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 03:38	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 03:38	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 03:38	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 03:38	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 03:38	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 03:38	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 03:38	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 03:38	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 03:38	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 03:38	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 03:38	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 03:38	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 03:38	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 03:38	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 03:38	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 03:38	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 03:38	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 03:38	J
1,2-Dichloroethane-d4 (S)	111	%		1	80-120		11/29/2012 03:38	
Toluene-d8 (S)	99	%		1	88-110		11/29/2012 03:38	
Bromofluorobenzene (S)	112	%		1	86-115		11/29/2012 03:38	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	3.6	mg/L	I	1	5.0	0.50	11/20/2012 16:17	A
Fluoride	0.22	mg/L	I	1	0.50	0.12	11/20/2012 16:17	A
Nitrate	4.8	mg/L		1	0.50	0.053	11/20/2012 16:17	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.055	mg/L	I	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	190	mg/L		1	10	10	11/23/2012 08:30	A
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DOH Certification #E84025
DEP COMPOAP # 870251



2742 N. Florida Ave.
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879
Fax (813) 229-0002

Report Date: December 3, 2012

Advanced Environmental Labs 528 S. North Lake Blvd. Suite 1016 Altamonte Springs, FL 32701	Field Custody: Client/Field ID:	Client A1209761003 MW-2
Attn: Myrna Santiago	Sample Collection:	11-19-12/1240
	Lab ID No:	12.9371
	Lab Custody Date:	11-21-12/1220
	Sample description:	Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	2.7 ± 1.0	11-30-12/0800	EPA 900.0	1.0
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.2 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	1.2 ± 0.7	12-3-12/0900	EPA 903.0	0.8
Radium-228	pCi/l	1.0 U ± 0.7	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard: Th-230					

U = indicates that the compound was analyzed for but not detected.

I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

A handwritten signature in black ink that reads "James W. Hayes".

James W. Hayes
Laboratory Manager

Test results meet all requirements of NELAC standards. Test results refer only to sample(s) listed. Contact person: Jim Hayes (813) 229-2879.

DOH Certification #E84025
DEP COMPOAP # 870251



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Report Date: December 3, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1209761004
MW-4
Sample Collection: 11-20-12/1207
Lab ID No: 12.9372
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	5.7 ± 1.5	11-30-12/0800	EPA 900.0	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.1 ± 0.8	Calc	Calc	1.0
Radium-226	pCi/l	2.1 ± 0.8	12-3-12/0900	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.8	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard:	Th-230				

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James W. Hayes
Laboratory Manager

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Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1209761005
MW-4A
Sample Collection: 11-20-12/1125
Lab ID No: 12.9373
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	2.4 ± 1.2	11-30-12/0800	EPA 900.0	1.6
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.3 ± 0.6	Calc	Calc	1.0
Radium-226	pCi/l	1.3 ± 0.6	12-3-12/0900	EPA 903.0	0.6
Radium-228	pCi/l	1.0 U ± 0.6	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard: Th-230					

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James W. Hayes
Laboratory Manager

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Tampa, Florida 33601
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Fax (813) 229-0002

Report Date: December 3, 2012

Advanced Environmental Labs 528 S. North Lake Blvd. Suite 1016 Altamonte Springs, FL 32701	Field Custody: Client/Field ID:	Client A1209761006 MW-4B
	Sample Collection:	11-20-12/1030
Attn: Myrna Santiago	Lab ID No:	12.9374
	Lab Custody Date:	11-21-12/1220
	Sample description:	Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.1 ± 0.6	11-30-12/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.0 U ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	0.6 U ± 0.4	12-3-12/0900	EPA 903.0	0.6
Radium-228	pCi/l	1.0 U ± 0.7	12-02-12/1025	EPA Ra-05	1.0

Alpha Standard: Th-230

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James W. Hayes
Laboratory Manager

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Report Date: December 3, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1209761007
MW-6A
Sample Collection: 11-20-12/1310
Lab ID No: 12.9375
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.6 ± 0.8	11-30-12/0800	EPA 900.0	1.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.0 U ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	0.9 U ± 0.6	12-3-12/0900	EPA 903.0	0.9
Radium-228	pCi/l	1.0 U ± 0.7	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard: Th-230					

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James W. Hayes
Laboratory Manager

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DOH Certification #E84025
DEP COMPOAP # 870251



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Report Date: December 3, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1209761008
MW-8
Sample Collection: 11-19-12/1324
Lab ID No: 12.9376
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.6 ± 0.9	11-30-12/0800	EPA 900.0	1.3
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.0 ± 0.7	Calc	Calc	1.0
Radium-226	pCi/l	0.9 U ± 0.7	12-3-12/0900	EPA 903.0	0.9
Radium-228	pCi/l	1.0 U ± 0.7	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard:	Tn-230				

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Laboratory Manager

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Report Date: December 3, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1209761009
MW-9A
Sample Collection: 11-20-12/0943
Lab ID No: 12.9377
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	11.7 ± 2.9	11-30-12/0800	EPA 900.0	2.6
Combined Radium (Radium-226 + Radium 228)	pCi/l	4.9 ± 1.2	Calc	Calc	1.0
Radium-226	pCi/l	3.9 ± 1.2	12-3-12/0900	EPA 903.0	0.8
Radium-228	pCi/l	1.0 U ± 0.7	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard:	Th-230				

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James W. Hayes
Laboratory Manager

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Report Date: December 3, 2012

Advanced Environmental Labs
528 S. North Lake Blvd. Suite 1016
Altamonte Springs, FL 32701

Field Custody: Client
Client/Field ID: A1209761001
MW-10
Sample Collection: 11-19-12/1408
Attn: Myrna Santiago
Lab ID No: 12.9369
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	16.2 ± 2.2	11-30-12/0800	EPA 900.0	1.2
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.4 ± 0.8	Calc.	Calc	1.0
Radium-226	pCi/l	2.4 ± 0.8	12-3-12/0900	EPA 903.0	0.6
Radium-228	pCi/l	1.0 U ± 0.8	12-2-12/1025	EPA Ra-05	1.0
Alpha Standard:	Th-230				

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Laboratory Manager

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P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879
Fax (813) 229-0002

Report Date: December 3, 2012

Advanced Environmental Labs Field Custody: Client
528 S. North Lake Blvd. Suite 1016 Client/Field ID: A1209761002
Altamonte Springs, FL 32701 Sample Collection: MW-11
Attn: Myrna Santiago Lab ID No: 12.9370
Lab Custody Date: 11-21-12/1220
Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	9.0 ± 1.5	11-30-12/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.9 ± 0.9	Calc	Calc	1.0
Radium-226	pCi/l	2.9 ± 0.9	12-3-12/0900	EPA 903.0	1.0
Radium-228	pCi/l	1.0 U ± 0.8	12-02-12/1025	EPA Ra-05	1.0
Alpha Standard:	Th-230				

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FIELD LOG

PROJ # P-468

NAME: Dale Claytor

PROJECT

NAME: Scooter Co. Landfill

PROJECT

LOCATION: Sunterville, FL

DATE: 11/19/12

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-2	SAMPLE ID: MW-2

DATE: 11/19/12

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" 1/4" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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											
$(1 \text{ Well } 1/1) = (31.92' \text{ feet} - 23.01' \text{ feet}) \times .16 \text{ gallons/foot} = 1,425.6 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + .125 gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~25'	PURGING INITIATED AT: 1201	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 1.90							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1216	1.50	1.50	.1	23.20	6.83	25.26	261	5.70	0.86	Clear	None
1218	.2	1.70	.1	23.20	6.88	25.99	261	5.72	0.40	Clear	None
1220	.2	1.90	.1	23.20	6.87	25.89	261	5.60	0.34	Clear	None
No changes											

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: Dale Claytor, Colinas Group, Inc.	SAMPLER/AFFILIATION SIGNATURES:	SAMPLING INITIATED AT: 1221	SAMPLING ENDED AT: 1240					
PUMP OR TUBING DEPTH IN WELL (feet): ~25'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="radio"/> N <input type="radio"/> Y <i>no 62 only</i>	FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type:	FILTER SIZE: _____ μm	DUPPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> 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-2	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	APP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP
"	1	PE	250 mL	HN03	None	—	Metals	APP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	APP

REMARKS: 3/3 CG 40mL HN03/NaTHIO None - 8260 APP2/8011 REPO

1201: Set dedicated 1/4" P2 tubing at ~25' static and started pump at 1 gpm.

1210: WL 23.20' at 1 gpm, GW is clear. DO is high at 6.18 mg/L, but is typical for this well. Will use optional stabilization criteria below for DO.

1215: WL 23.20' at 1 gpm, drawdown is stable. All parameters are stable or in range except for DO.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

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

SAMPLING/PURGING APP = After Peristaltic Pump; B = Baile; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

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

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL									
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 11/20/14									
PURGING DATA											
WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DC DIAMETER (inches): 1/4"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24'-5"	PURGE PUMP TYPE OR BAILER: ESP & PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				= (36.35' feet - feet) X gallons/foot = gallons							
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				$0.0006 \text{ gallons} + (0.0006 \text{ gallons/foot} \times 36' \text{ feet}) + .125 \text{ gallons} = .2186 \text{ gallons}$							
1 Equip Vol		INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~31'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~31'	PURGING INITIATED AT: 1133	PURGING ENDED AT: 1146	TOTAL VOLUME PURGED (gallons): 1.30				
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1143	.90	.90	.1	24.75	7.46	25.99	513	0.73	3.77	Clear	None
1144	.2	1.10	.1	24.75	7.43	25.96	516	0.65	3.47	Clear	None
1146	.2	1.30	.1	24.75	7.40	26.04	520	0.61	3.75	Clear	None
No shear											
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: Dale Claytor, Colinas Group, Inc.				SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1147	SAMPLING ENDED AT: 1207		
PUMP OR TUBING DEPTH IN WELL (feet): ~31'				SAMPLE PUMP	TUBING			
				FLOW RATE (mL per minute): < 250 mL	MATERIAL CODE: PE			
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N				FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N FILTER SIZE: _____ µm Filtration Equipment Type: _____	DUPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> 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-4	2	PE	1 Ltr	HN03	None	--	GrossAlpha, RA226RA228	-ESP-DC
"	1	PE	250 mL	H2S04	None	--	Ammonia	-ESP-DC
"	1	PE	250 mL	HN03	None	--	Metals	-ESP-DC
"	1	PE	500 mL	None	None	--	Chloride, Fluoride, Nitrate, TDS	-ESP-DC

REMARKS: 3/3 CG 40 mL HCl/HNO₃ None - 8260 API/8011
 1133: Set dedicated 1/4" PE tubing at ~31' bslc and started pump at .1 gpm.
 1137: WL 24.75' at .1 gpm, GW is clear.
 1140: WL 24.75' at .1 gpm, drawdown is stable. All parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
 2) Packed samples on ice immediately upon collection

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

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

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

5.00

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-4A	SAMPLE ID: MW-4A

DATE: 1/20/12

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.74	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (45.23' feet - 29.74 feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X 3 = 1.245 (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X 45' feet) + .125 gallons = .415 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	PURGING INITIATED AT: 1050	PURGING ENDED AT: 1109	TOTAL VOLUME PURGED (gallons): 7.25							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
105	6.25	6.25	.25	29.92	7.15	26.23	619	0.57	6.79	Clear	None
107	.5	6.25	.25	29.92	7.15	26.04	619	0.53	6.65	Clear	None
109	.5	7.25	.25	29.92	7.15	26.05	618	0.51	4.00	Clear	None
NO Sheen											

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: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1110	SAMPLING ENDED AT: 1125					
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	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	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-4A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS: 3/3 CG 40 mL HCl/Nitro None — 8260 APPZ/8011 ESP

1050: Inserted SS ESP and dedicated 3/8" PE tubing to ~40' depth and started pump at .5 gpm.

1055: GW is extremely turbid and is typical for this well. Will over purge to clean it up.

1100: Turbidity is at 9 NTUs, reduced flow to .25 gpm.

1102: WL 29.92' at .25 gpm, all parameters are stable or in range

1104: WL 29.92' at .25 gpm, drawdown is stable.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
 2) Packed samples on ice immediately upon collection

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

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
 EQUIPMENT CODES: 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 the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-4B	SAMPLE ID: MW-4B

DATE: 11/20/12

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 27.81 TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

$$1 \text{ Well Vol} = (38.49' \text{ feet} - 27.81' \text{ feet}) \times .16 \text{ gallons/foot} = 1.7088 \text{ gallons}$$

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

$$1 \text{ Equip Vol} = .02 \text{ gallons} + (.006 \text{ gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$$

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): n 29.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): n 29.5	PURGING INITIATED AT: 1001	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (gallons): 3.50
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1009	2.00	2.00	.25	28.03	9.20	25.60	108	7.10	26.9	Clear	None
1011	.5	2.50	.25	28.02	9.18	25.58	110	6.98	13.1	Clear	None
1013	.5	3.00	.25	28.02	9.16	25.60	112	6.89	13.6	Clear	None
1015	.5	3.50	.25	28.02	9.11	25.61	115	6.74	8.52	Clear	None
										No Sheen	

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: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1016	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): n 29.5	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N	FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N FILTER SIZE: <input type="radio"/> μm Filtration Equipment Type: <input type="radio"/>	DUPPLICATE: <input type="radio"/> Y <input checked="" type="radio"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-4B	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS: 3/3 CG 40mL HCl/HNO3 None — 826 APP 2/8011 ESP
 1001: Inserted SS ESP and dedicated 3/8" PE tubing to ~ 29.5' bdc and started pump at 1259pm.
 1005: WL 28.04' at .25 9pm, GW is clear. DO and pH are high at 7.57 mg/L and 9.24 Slu, respectively, but is typical for this well. Will use optional stabilization criteria below for DO and pH.
 1008: WL 28.03' at .25 9pm, drawdown is stable. DO and pH are still high, but stable. All other parameters are stable.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
 2) Packed samples on ice immediately upon collection

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

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

6.0P

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL
WELL NO: MW-6A	SAMPLE ID: MW-6A

DATE: 11/20/12

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.15	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable											
= (50.84' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
1 Equip Vol = .02 gallons + (.006 gallons/foot X 50' feet) + .125 gallons = .445 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	PURGING INITIATED AT: 1233	PURGING ENDED AT: 1257	TOTAL VOLUME PURGED (gallons): 9.50							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1253	8.50	8.50	.25	31.23	7.83	24.71	255	6.96	15.7	Clear	None
1255	.5	9.00	.25	31.23	7.84	24.70	255	6.90	13.7	Clear	None
1257	.5	9.50	.25	31.23	7.84	24.68	255	6.91	12.7	Clear	None
No shear											
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: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1258	SAMPLING ENDED AT: 1310									
PUMP OR TUBING DEPTH IN WELL (feet): ~45'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE										
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N	FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type:	FILTER SIZE: _____ μm	DUPPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N									
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE						
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED			TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-6A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP				
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP				
"	1	PE	250 mL	HN03	None	—	Metals	ESP				
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP				
REMARKS:	3/3 CG 40 ml HCl/Nitroso None — 0604902/8001 ESP			1233: Inserted SS ESP and dedicated 3/8" PE tubing to ~45' to clean and started pump at .6 gpm.			1238: GW is extremely turbid, but is typical for this well. Will use optional stabilization criteria below.					
1243: Turbidity is at ~40 NTUs, reduced flow to .25 gpm,				1246: WL 31.23' at .25 gpm, turbidity is at 26 NTUs. DO is high at 7.24 mg/L, but is typical for this well. Will use optional stabilization criteria below.				Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes 2) Packed samples on ice immediately upon collection				
(Over)												
MATERIAL CODES:	AG = Amber Glass;	CG = Clear Glass;	PE = Polyethylene;	PP = Polypropylene;	S = Silicone;	T = Teflon;	O = Other (Specify)					
SAMPLING/PURGING	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump							
EQUIPMENT CODES:	RFFP = Reverse Flow Peristaltic Pump;	SM = Straw Method (Tubing Gravity Drain);	VT = Vacuum Trap;	O = Other (Specify)								

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

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3) H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 11/19/12

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" 1/4" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 21.95	PURGE PUMP TYPE OR BAILER: ESP AL PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (43.24' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X 3 = .7104 (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~37'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~37'	PURGING INITIATED AT: 1253	PURGING ENDED AT: 1303	TOTAL VOLUME PURGED (gallons): 100							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1259	.60	.60	.40	21.97	7.35	23.59	338	4.63	0.49	Clear	None
1301	.2	.80	.1	21.97	7.36	23.64	338	4.57	0.23	Clear	None
1303	.2	1.00	.1	21.97	7.36	23.66	339	4.49	0.22	Clear	None
NOSHAN											
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: Dale Claytor, Colinas Group, Inc.	SAMPLER/SIGNATURES:	SAMPLING INITIATED AT: 1304	SAMPLING ENDED AT: 1304					
PUMP OR TUBING DEPTH IN WELL (feet): ~37'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N <i>probe</i>	FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N Filtration Equipment Type: _____	FILTER SIZE: _____ µm	DUPPLICATE: <input checked="" type="radio"/> Y <input type="radio"/> N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-8	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	APP -ESP-DC
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP -ESP-DC
"	1	PE	250 mL	HN03	None	—	Metals	APP -ESP-DC
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	APP -ESP-DC
REMARKS: 3/3 CG none HCl/NaOH None — 20101002/8011 RFPP								
1253: Set dedicated 1/4" PE tubing at ~37' btoc and started pump at .1 gpm.								
1258: WL 21.97' at .1 gpm, GW is clear. DO is high at 4.70 mg/L, but is typical for this well. Will use optional stabilization criteria below for DO. Drawdown is stable.								
Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes 2) Packed samples on ice immediately upon collection								
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)								
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump								
EQUIPMENT CODES: RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)								

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

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

1.25
1d.00

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL									
WELL NO: MW-9A	SAMPLE ID: MW-9A	DATE: 11/20/10									
PURGING DATA											
WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.10 PURGE PUMP TYPE OR BAILER: ESP								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (50.17' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$1 \text{ Equip Vol} = .02 \text{ gallons} + (.006 \text{ gallons/foot} \times 50' \text{ feet}) + .125 \text{ gallons} = .445 \text{ gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45' FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45' PURGING INITIATED AT: 0855 PURGING ENDED AT: 0927 TOTAL VOLUME PURGED (gallons): 16.00											
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0923	15.00	15.00	.25	32.97	6.54	25.19	917	0.82	14.9	Clear	None
0925	.5	15.50	.25	32.96	6.53	25.01	914	0.63	13.1	Clear	None
0927	.5	16.00	.25	32.95	6.53	25.02	912	0.58	12.4	Clear	None
No screen											
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: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES		SAMPLING INITIATED AT: 0928	SAMPLING ENDED AT: 0943		
PUMP OR TUBING DEPTH IN WELL (feet): ~45'		SAMPLE PUMP FLOW RATE (mL per minute):		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)		
MW-9A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228
"	1	PE	250 mL	H2S04	None	—	Total Ammonia
"	1	PE	250 mL	HN03	None	—	Metals
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS

REMARKS: 3/3 CG 40 mL HCl/NaOH None — 8260 API/8011 ESP

0855: Inserted 55 ESP and dedicated 3/8" PE tubing to ~45' 6ft sec and started pump at .25 gpm.

0900: GW is extremely turbid and is typical for this well. Increased flow to .75 gpm to clean it up.

0916: Turbidity is at 63 NTUs, reduced flow to .25 gpm. ~~0920~~

0920: WL 32.97' at .25 gpm, all parameters are stable or in range. Turbidity has dropped to 15 NTUs.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

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	SM = Straw Method (Tubing Gravity Drain);	VT = Vacuum Trap;

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 11/19/12

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 20" 1/4" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable											
= (45.35' feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME x 3 = .726 (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	PURGING INITIATED AT: 1335	PURGING ENDED AT: 1347	TOTAL VOLUME PURGED (gallons): 120							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1343	.80	.80	.1	22.57'	6.87	24.61	643	0.46	4.31	Clear	None
1345	.2	1.00	.1	22.57'	6.87	24.64	641	0.41	4.45	Clear	None
1345	.2	1.20	.1	22.57'	6.87	24.66	636	0.35	8.26	Clear	None
<i>No shear</i>											

WELL CAPACITY (Gallons Per Foot): 0.76" = 0.02; 1" = 0.04; 1.26" = 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: Dale Claytor, Colinas Group, Inc.	SAMPLE(S) SIGNATURES:	SAMPLING INITIATED AT: 1348	SAMPLING ENDED AT: 1408					
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE						
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> NW probe	FIELD-FILTERED: <input checked="" type="checkbox"/> N	FILTER SIZE: _____ μm Filtration Equipment Type:	DUPLICATE: <input checked="" type="checkbox"/> N					
SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION							
SAMPLE ID CODE	# CONTAINERS	MATERI AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-10	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	APP-ESP-DC
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP-ESP-DC
"	1	PE	250 mL	HN03	None	—	Metals	APP-ESP-DC
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	APP-ESP-DC
REMARKS: 3/3 CG 10ml HCl/HNO3 None — 8260 APP I/80N RFPP								
1335: Set dedicated 1/4" PE tubing at ~40' static and started pump at .1 gpm.								
1340: WL 22.57' at .1 gpm, GW is clear.								
1342: WL 22.57' at .1 gpm, drawdown is stable. All parameters are stable or in range.								

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

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

SAMPLING/PURGING	APP = After Peristaltic Pump;	B = Bailer;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump
EQUIPMENT CODES:	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 the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill				SITE LOCATION: Sumterville, FL							
WELL NO: MW-11	SAMPLE ID: MW-11			DATE: 11/19/12							
PURGING DATA											
WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIA. 1/4" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP DC PP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY only fill out if applicable $= (40.15' \text{ feet} - 24.27' \text{ feet}) \times \text{gallons/foot} = \text{gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $1 \text{ Equip Vol} = .02 \text{ gallons} + (.006 \text{ gallons/foot} \times 40' \text{ feet}) + .125 \text{ gallons} = .229 \text{ gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	PURGING INITIATED AT: 1105	PURGING ENDED AT: 1127	TOTAL VOLUME PURGED (gallons): 1.54							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (ppm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1123	1.26	1.26	.07	24.31	6.20	24.96	304	1.60	2.81	Clear	None
1125	.14	1.40	.07	24.31	6.20	24.9	304	1.60	2.56	Clear	None
1127	.14	1.54	.07	24.31	6.19	24.88	304	1.55	2.40	Clear	None
No Sheen											
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: Dale Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1/28	SAMPLING ENDED AT: 1/14/8				
PUMP OR TUBING DEPTH IN WELL (feet):	<i>~35</i>	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE					
FIELD DECONTAMINATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <i>Wt probe only</i>	FIELD-FILTERED <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Filtration Equipment Type: _____	FILTER SIZE: _____ μm	DUPPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226,RA228	<i>APP -ESP-AC</i>
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	<i>APP -ESP-AC</i>
"	1	PE	250 mL	HN03	None	—	Metals	<i>APP -ESP-AC</i>
"	1	PE	500 mL	None	None	—	Chloride,Fluoride, Nitrate, TDS	<i>APP -ESP-AC</i>

1105: Set dedicated 1/4" PE tubing at ~35' btoC and started pumps at .07 gpm.

1110: WL 24.31' at .07 gpm, GW is clear. DO is high at 2.07 mg/L, will over purge to get it in range.

1120: WL 24.31' at .07 gpm, drawdown is stable. DO is at 1.72 mg/L and is slowly dropping. All other parameters are stable or in range.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

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) y

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

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3): + 0.2 units; Temperature: + 0.2

2. STABILIZATION: optional, \pm 10% (whichever is greater); Temperature: \pm 1 degree C; Specific Conductance: \pm 5%; Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2), optionally, \pm .02 mg/L or \pm 10% (whichever is greater); Turbidity: all readings \leq 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill			SITE LOCATION: Sumterville, FL									
WELL NO: NA			SAMPLE ID: EQB			DATE: 11/20/14						
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: ESP				
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (feet - feet) X gallons/foot = gallons												
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons												
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:			PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μ S/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
<i>NA</i>												
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88												
TUBING INSIDE DIA. CAPACITY (Gal./Fl.): 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												

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.			SAMPLER(S) SIGNATURES:		SAMPLING INITIATED AT: 0830	SAMPLING ENDED AT: 0845		
PUMP OR TUBING DEPTH IN WELL (feet):			SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		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		
EQB	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2SO4	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP
"	3/3	Various	Various	Various	None	—	Appendix I Parameters/18011	ESP

REMARKS: Field decorated SS ESP, WL probe and 5 gallon PE bucket IAW DEP-SOP-001/01, FC 1000 and poured 1.5 gallons of DI water into bucket. Inserted SS ESP and WL probe and circulated DI water through pump and over WL probe for several minutes, then collected E&B samples.

Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes
2) Packed samples on ice immediately upon collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polymonylene; S = Silicone; T = Teflon; O = O-Ring (Rubber)

APP = After Peristaltic Pump; B = Balier; RP = Rotor Pump; ESR = Electric Solenoid;

EQUIPMENT CODES: AP = Air Peristaltic Pump; B = baller; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap
C = Other (see page 15)

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

2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 2): ± 0.2 units; Temperature ± 0.2 degrees Celsius.

degrees C; Specific Conductance: $\pm 5\%$; Dissolved Oxygen: all readings $< 20\%$ saturation (see Table FS 2200-2) optionally ± 0.2 mg/l or $\pm 10\%$ (whichever is greater); pH: ± 0.2 units; Temperature: ± 0.2 degrees C.

Turbidity: all readings \leq 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater)

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556/Hanna INSTRUMENT #

PARAMETERS:

TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Bracket calibrated meters pH 4.01 – 7 and Turbidity 0.1 – 15 NTU's]

Standard A Oakton pH Standard 4.01 Units Exp: 6/2013

Standard B Oakton pH Standard 7.00 Units Exp: 8/2013

Standard C Oakton Conductivity Standard 1500 uS/cm Exp: 2/2013

Standard D Hanna 0.1 NTU Standard Exp: 4/2013

Standard E Hanna 15 NTU Standard Exp: 4/12/03

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
11/19/12	1000	A	4.01	4.01		Yes	IC	JK	pH
		B	7.00	7.00					pH
		C	1500	1500					Cond
		--	--	9.31					DO
		--	--	18.82					Temp
		D	0.1	0.1					Turb
		E	15	15.0					Turb
11/19/12	1020	A	4.01	4.01		Yes	ICV	JK	pH
		B	7.00	7.02					pH
		C	1500	1501					Cond
		--	--	9.38					DO
		--	--	18.46					Temp
		D	0.1	0.07					Turb
		E	15	15.0					Turb
11/19/12	1500	A	4.01	3.97		Yes	CC	JK	pH
		B	7.00	6.95					pH
		C	1500	1496					Cond
		--	--						DO
		--	--						Temp
		D	0.1	0.08					Turb
		E	15						Turb

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556/Hanna INSTRUMENT #

PARAMETERS:

TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CL DO OTHER _____

STANDARDS: [Bracket calibrated meters pH 4.01 – 7 and Turbidity 0.1 – 15 NTU's]

Standard A Oakton pH Standard 4.01 Units Exp: 3/2014

Standard B Oakton pH Standard 7.00 Units Exp: 6/2014

Standard C Oakton Conductivity Standard 1500 uS/cm Exp: 6/2013

Standard D Hanna 0.1 NTU Standard Exp: 4/2013

Standard E Hanna 15 NTU Standard Exp: 4/01/13

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/20/12	0250	A	4.01	4.01		Yes	IC	JK
		B	7.00	7.00				pH
		C	1500	1500				Cond
		--	--	9.34				DO
		--	--	18.65				Temp
		D	0.1	0.1				Turb
		E	15	15.0				Turb
11/20/12	0810	A	4.01	4.02		Yes	ICV	JK
		B	7.00	6.98				pH
		C	1500	1501				Cond
		--	--	9.38				DO
		--	--	18.36				Temp
		D	0.1	0.07				Turb
		E	15	15.0				Turb
11/20/12	1330	A	4.01	4.01		Yes	CC	JK
		B	7.00	6.99				pH
		C	1500	1497				Cond
		--	--	8.24				DO
		--	--	25.26				Temp
		D	0.1	0.06				Turb
		E	15	15.0				Turb



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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761010	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	EQ BLANK	Date Collected:	11/20/12 08:45		

Sample Description:	Location:
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Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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METALS

Analysis Desc: SW846 6010B Preparation Method: SW-846 3010A
Analysis, Water Analytical Method: SW-846 6010

Aluminum	61	ug/L	U	1	200	61	11/28/2012 15:50	J
Barium	0.28	ug/L	U	1	2.0	0.28	11/28/2012 15:50	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/28/2012 15:50	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/28/2012 15:50	J
Chromium	0.50	ug/L	U	1	4.0	0.50	11/28/2012 15:50	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/28/2012 15:50	J
Iron	38	ug/L	U	1	200	38	11/28/2012 15:50	J
Manganese	0.53	ug/L	I	1	1.0	0.24	11/28/2012 15:50	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/28/2012 15:50	J
Sodium	0.026	mg/L	U	1	0.20	0.026	11/28/2012 15:50	J
Vanadium	0.18	ug/L	U	1	1.5	0.18	11/28/2012 15:50	J
Zinc	17	ug/L		1	10	2.0	11/28/2012 15:50	J

Analysis Desc: SW846 6020B Preparation Method: SW-846 3010A
Analysis, Total Analytical Method: SW-846 6020

Antimony	0.12	ug/L	I,V	1	0.60	0.073	11/30/2012 16:28	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	11/30/2012 16:28	J
Copper	1.3	ug/L	I	1	7.0	0.10	11/30/2012 16:28	J
Lead	0.076	ug/L	U	1	0.70	0.076	11/30/2012 16:28	J
Selenium	2.2	ug/L	U	1	5.0	2.2	11/30/2012 16:28	J
Silver	0.059	ug/L	U	1	0.30	0.059	11/30/2012 16:28	J
Thallium	0.067	ug/L	U	1	0.20	0.067	11/30/2012 16:28	J

Analysis Desc: SW846 7470A Preparation Method: SW-846 7470A
Analysis, Water Analytical Method: SW-846 7470A

Mercury	0.014	ug/L	U	1	0.10	0.014	11/28/2012 13:37	J
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SEMICVOLATILES

Analysis Desc: SW 8011 Analysis,
Water Preparation Method: SW-846 8011
 Analytical Method: SW-846 8011

1,2-Dibromo-3-Chloropropane	0.0057	ug/L	U	1	0.020	0.0057	11/21/2012 16:30	M
Ethylene Dibromide (EDB)	0.015	ug/L	U	1	0.020	0.015	11/21/2012 16:30	M
Tetrachloro-m-xylene (S)	112	%		1	40.3-190		11/21/2012 16:30	

VOLATILES

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761010**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **EQ BLANK**

Date Collected: 11/20/12 08:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8260C Analysis, Water								
Preparation Method: SW-846 5030B								
Analytical Method: SW-846 8260B								
1,1,1,2-Tetrachloroethane	0.32	ug/L	U	1	1.0	0.32	11/29/2012 02:07	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:07	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2012 02:07	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 02:07	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2012 02:07	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:07	J
1,2,3-Trichloropropene	0.32	ug/L	U	1	1.0	0.32	11/29/2012 02:07	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2012 02:07	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 02:07	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:07	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:07	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2012 02:07	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2012 02:07	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2012 02:07	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2012 02:07	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2012 02:07	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2012 02:07	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 02:07	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2012 02:07	J
Bromodichloromethane	0.46	ug/L	I	1	1.0	0.26	11/29/2012 02:07	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2012 02:07	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2012 02:07	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2012 02:07	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2012 02:07	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2012 02:07	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2012 02:07	J
Chloroform	2.2	ug/L		1	1.0	0.26	11/29/2012 02:07	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:07	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2012 02:07	J
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/29/2012 02:07	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2012 02:07	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2012 02:07	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2012 02:07	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2012 02:07	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2012 02:07	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2012 02:07	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 02:07	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID:	A1209761010	Date Received:	11/20/12 15:12	Matrix:	Water
Sample ID:	EQ BLANK	Date Collected:	11/20/12 08:45		

Sample Description:	Location:
---------------------	-----------

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2012 02:07	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2012 02:07	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2012 02:07	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2012 02:07	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 02:07	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 02:07	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 02:07	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 02:07	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 02:07	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 02:07	J
1,2-Dichloroethane-d4 (S)	110	%		1	80-120		11/29/2012 02:07	
Toluene-d8 (S)	98	%		1	88-110		11/29/2012 02:07	
Bromofluorobenzene (S)	110	%		1	86-115		11/29/2012 02:07	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	0.50	mg/L	U	1	5.0	0.50	11/20/2012 22:08	A
Fluoride	0.12	mg/L	U	1	0.50	0.12	11/20/2012 22:08	A
Nitrate	0.053	mg/L	U	1	0.50	0.053	11/20/2012 22:08	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/25/2012 14:53	T
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Analysis Desc: Tot Dissolved Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	10	mg/L	U	1	10	10	11/23/2012 08:30	A
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Lab ID: **A1209761011**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **TRIP BLANK**

Date Collected: 11/16/12 00:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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VOLATILES

Analysis Desc: 8260C Analysis, Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260B

1,1,1,2-Tetrachloroethane

0.32 ug/L

U 1

1.0

0.32 11/29/2012 01:21 J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761011**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **TRIP BLANK**

Date Collected: 11/16/12 00:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	PQL	Adjusted	Adjusted	Analyzed	Lab
1,1,1-Trichloroethane	0.29	ug/L	U	1		1.0	0.29	11/29/2012 01:21	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1		1.0	0.48	11/29/2012 01:21	J
1,1,2-Trichloroethane	0.33	ug/L	U	1		1.0	0.33	11/29/2012 01:21	J
1,1-Dichloroethane	0.21	ug/L	U	1		1.0	0.21	11/29/2012 01:21	J
1,1-Dichloroethylene	0.29	ug/L	U	1		1.0	0.29	11/29/2012 01:21	J
1,2,3-Trichloropropane	0.32	ug/L	U	1		1.0	0.32	11/29/2012 01:21	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1		5.0	3.2	11/29/2012 01:21	J
1,2-Dichlorobenzene	0.36	ug/L	U	1		1.0	0.36	11/29/2012 01:21	J
1,2-Dichloroethane	0.29	ug/L	U	1		1.0	0.29	11/29/2012 01:21	J
1,2-Dichloropropane	0.29	ug/L	U	1		1.0	0.29	11/29/2012 01:21	J
1,4-Dichlorobenzene	0.37	ug/L	U	1		1.0	0.37	11/29/2012 01:21	J
2-Butanone (MEK)	0.97	ug/L	U	1		5.0	0.97	11/29/2012 01:21	J
2-Hexanone	0.44	ug/L	U	1		5.0	0.44	11/29/2012 01:21	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1		5.0	0.51	11/29/2012 01:21	J
Acetone	3.3	ug/L	U	1		5.0	3.3	11/29/2012 01:21	J
Acrylonitrile	1.6	ug/L	U	1		5.0	1.6	11/29/2012 01:21	J
Benzene	0.21	ug/L	U	1		1.0	0.21	11/29/2012 01:21	J
Bromochloromethane	0.37	ug/L	U	1		1.0	0.37	11/29/2012 01:21	J
Bromodichloromethane	0.26	ug/L	U	1		1.0	0.26	11/29/2012 01:21	J
Bromoform	0.62	ug/L	U	1		5.0	0.62	11/29/2012 01:21	J
Bromomethane	0.26	ug/L	U	1		1.0	0.26	11/29/2012 01:21	J
Carbon Disulfide	0.34	ug/L	U	1		1.0	0.34	11/29/2012 01:21	J
Carbon Tetrachloride	0.24	ug/L	U	1		1.0	0.24	11/29/2012 01:21	J
Chlorobenzene	0.23	ug/L	U	1		1.0	0.23	11/29/2012 01:21	J
Chloroethane	0.58	ug/L	U	1		1.0	0.58	11/29/2012 01:21	J
Chloroform	0.26	ug/L	U	1		1.0	0.26	11/29/2012 01:21	J
Chloromethane	0.29	ug/L	U	1		1.0	0.29	11/29/2012 01:21	J
Dibromochloromethane	0.33	ug/L	U	1		1.0	0.33	11/29/2012 01:21	J
Dibromomethane	0.38	ug/L	U	1		1.0	0.38	11/29/2012 01:21	J
Ethylbenzene	0.24	ug/L	U	1		1.0	0.24	11/29/2012 01:21	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1		1.0	0.39	11/29/2012 01:21	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1		5.0	0.20	11/29/2012 01:21	J
Methylene Chloride	0.32	ug/L	U	1		5.0	0.32	11/29/2012 01:21	J
Styrene	0.21	ug/L	U	1		1.0	0.21	11/29/2012 01:21	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1		1.0	0.59	11/29/2012 01:21	J
Toluene	0.28	ug/L	U	1		1.0	0.28	11/29/2012 01:21	J
Trichloroethene	0.36	ug/L	U	1		1.0	0.36	11/29/2012 01:21	J
Trichlorofluoromethane	0.35	ug/L	U	1		1.0	0.35	11/29/2012 01:21	J
Vinyl Acetate	0.35	ug/L	U	1		1.0	0.35	11/29/2012 01:21	J
Vinyl Chloride	0.37	ug/L	U	1		1.0	0.37	11/29/2012 01:21	J

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ANALYTICAL RESULTS

Workorder: A1209761 4th QTR Sumter Co Landfill

Lab ID: **A1209761011**

Date Received: 11/20/12 15:12 Matrix: Water

Sample ID: **TRIP BLANK**

Date Collected: 11/16/12 00:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2012 01:21	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2012 01:21	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2012 01:21	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2012 01:21	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2012 01:21	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2012 01:21	J
1,2-Dichloroethane-d4 (S)	106	%		1	80-120		11/29/2012 01:21	
Toluene-d8 (S)	101	%		1	88-110		11/29/2012 01:21	
Bromofluorobenzene (S)	110	%		1	86-115		11/29/2012 01:21	

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