

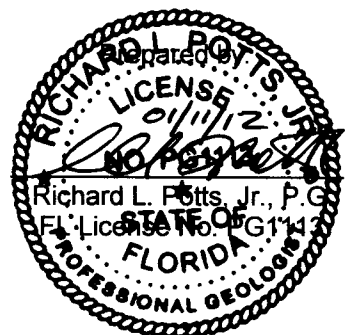
**SUMTER COUNTY
(CLOSED) LANDFILL
QUARTERLY GROUNDWATER
MONITORING REPORT
Quarter IV (November) 2011**

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**



January 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.

1-11-12

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

THE COLINAS GROUP, INC.
HYDROGEOLOGISTS & ENGINEERS

January 11, 2012

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

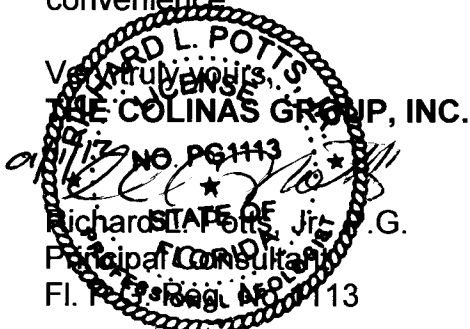
Subj: **Quarter IV (November) 2011 Groundwater Monitoring Report
Sumter County Closed Class I Landfill
Sumter County, Florida
FDEP Permit No. 22926-003-SF**

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) 2011**

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.



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

**SUMTER COUNTY (CLOSED) LANDFILL
GROUNDWATER MONITORING REPORT,
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2011**

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2. Laboratory Analytical Report
3. Field Data 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) 2011**

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter IV (November) 2011 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 228, Appendix I. The expanded list of analytical parameters is required by permit for the fourth quarter of each year.

SAMPLING EVENT

The Quarter IV 2011 sampling event at the Sumter County Landfill occurred on November 22, 2011. 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.

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.

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.

RESULTS

Field Tested Parameters

Results of field testing completed at groundwater monitoring wells for the Quarter IV 2011 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 eight (8) of the nine (9) groundwater monitoring wells sampled during the November 2011 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 9.27 pH units. This well has produced pH values above 8.5 since sampling of the well began in Quarter II of 2006.

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 24.32 C at well **MW-8** to 27.32 C at **MW-2**.

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 139 umhos/cm to 913 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 well **MW-11**.

Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the Quarter IV 2011 sample set is presented in Table III. As shown, five (5) parameters were reported for certain monitoring wells at concentrations that exceed applicable regulatory levels. Exceeded parameters were aluminum, iron, manganese and total dissolved solids (TDS).

Aluminum

Aluminum was measured in water samples from monitoring wells **MW-4B**, **MW-10** and **MW-11** at concentrations above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l. The highest aluminum concentration is reported for **MW-11** at 1,100 ug/l.

Iron

Dissolved iron was detected in two (2) monitoring wells at concentrations above the FSDWS MCL of 300 ug/l. Iron was reported at 930 ug/l for well **MW-9A** and 510 ug/l for **MW-10**. Iron was detected below 300 ug/l at two (2) monitoring wells 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 88 ug/l. Manganese was reported in each of the remaining monitoring wells at concentrations less than 50 ug/l.

Total Dissolved Solids (TDS)

TDS concentration was reported marginally above the 500 mg/l FSDWS MCL at monitoring well **MW-9A** at 510 mg/l. Past analytical data from the monitoring network indicates that dissolved calcium carbonate accounts for a large part of the TDS load in groundwater at the landfill.

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** (17 mg/l - 25 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** (20 mg/l - 39 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 228 Appendix I parameters were completed for this sampling event. As indicated on the attached laboratory reports of analyses from AEL, no Appendix I volatile organic compounds were detected above the laboratory method detection limits in groundwater samples from any of the facility groundwater monitoring wells.

SUMMARY

Chemical characteristics of groundwater monitored at the Sumter County Landfill are reported for the Quarter IV (November) 2011 sampling event. Exceedances of specific constituent regulatory maximum concentration levels (MCLs) are reported at specific monitoring wells for aluminum, iron, manganese, and total dissolved solids (TDS).

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.

Aluminum was reported by the laboratory at concentrations above the FSDWS MCL (200 ug/l) at wells **MW-4B**, **MW-10** and **MW-11**. 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-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.

TDS concentration was reported slightly above the FSDWS MCL of 500 mg/l at monitoring well **MW-9A**. Historical analytical data for well **MW-9A** indicates that dissolved calcium carbonate (limestone) accounts for a large part of the TDS load at this well.

Annual sampling and analysis for volatile organic compounds listed in 40 CFR, Part 228 Appendix I was completed this quarter. None of the VOC's were detected in groundwater samples collected during this sampling event.

TABLE I
FIELD PARAMETER RESULTS SUMMARY,
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter IV (November) 2011

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	27.32	5.00	7.04	333	1.08
MW-4	26.70	0.86	7.21	583	3.94
MW-4A	26.69	0.57	7.06	665	7.10
MW-4B	25.81	5.11	9.27	139	4.45
MW-6A	24.44	6.72	7.80	255	7.11
MW-8	24.32	3.48	7.34	347	2.38
MW-9A	25.06	0.62	6.53	913	3.00
MW-10	25.07	1.64	6.94	530	9.16
MW-11	25.95	0.79	6.58	559	14.80

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

TABLE II
QUARTER IV (November) 2011
SUMMARY OF GROUNDWATER LEVELS
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
(November 22, 2011)

Well No.	Measuring Point Elevation ^{1/} (ft. +NGVD)	Depth to Water (ft. - MP) ^{2/}	Groundwater Elevation (ft. +NGVD)
MW-1	70.10	26.55	43.55
MW-2	68.96	25.23	43.73
MW-2A	71.98	28.30	43.68
MW-4	70.33	26.66	43.67
MW-4A	75.49	31.87	43.62
MW-4B	73.49	29.95	43.54
MW-4C	70.88	27.35	43.53
MW-4D	73.35	29.74	43.61
MW-6A	77.48	33.42	44.06
MW-7	72.93	29.26	43.67
MW-8	68.63	24.13	44.50
MW-9	72.62	28.84	43.78
MW-9A	75.14	31.32	43.82
MW-10	68.14	24.30	43.84
MW-11	70.02	26.43	43.59

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

^{2/} Water levels recorded on November 22, 2011.

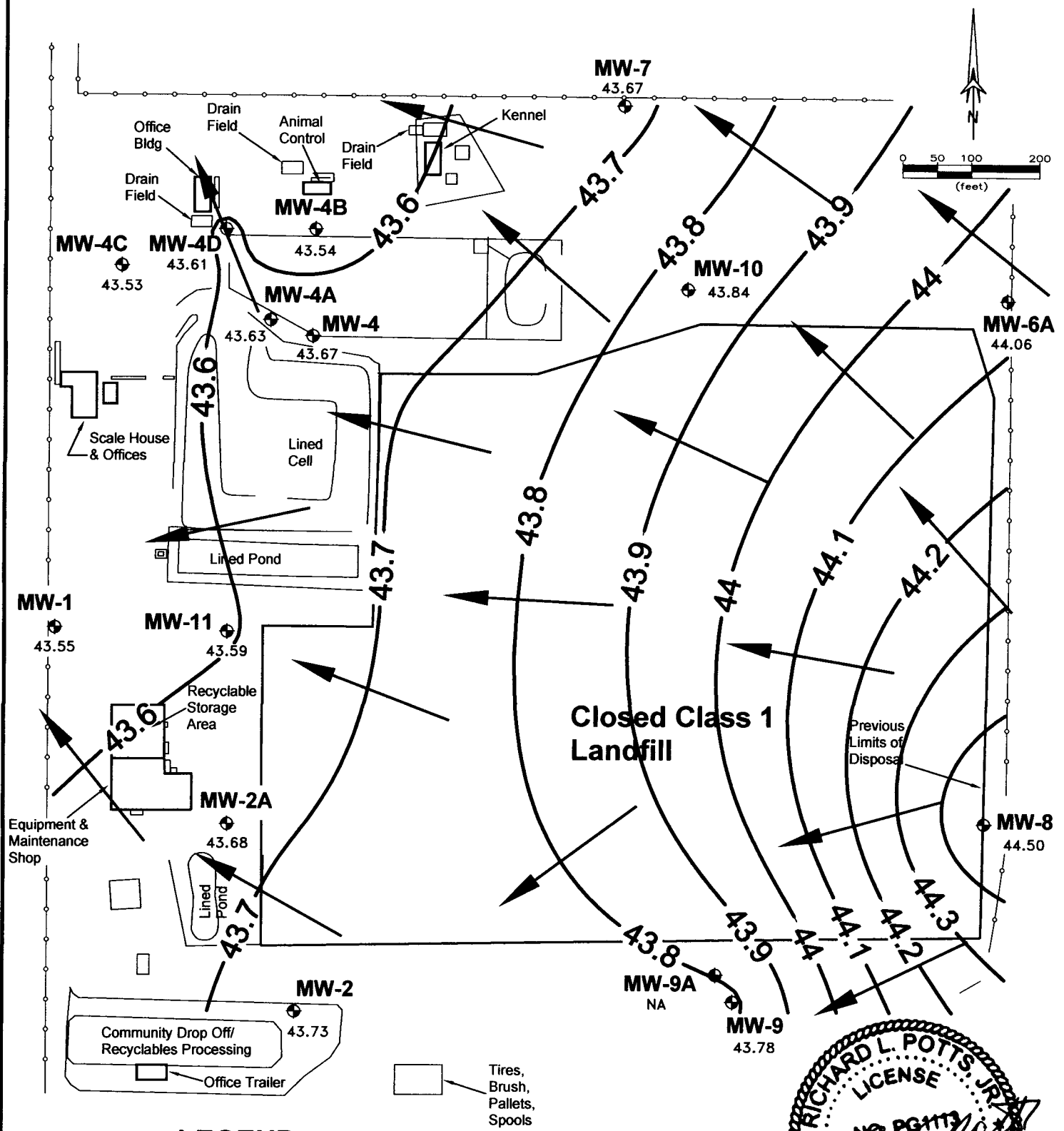
TABLE III
SUMMARY OF LABORATORY RESULTS
SUMTER COUNTY (CLOSED) LANDFILL
QUARTER IV (November) 2011

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	MCL
Ammonia	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	0.27	BDL	BDL	2.8
Aluminum	ug/l	BDL	160	79	460	BDL	BDL	140	530	1100	200
Antimony	ug/l	1.0 V	0.48 V	0.24 V	0.23 V	0.15 V	0.20 V	0.20 V	0.37 v	1.1 V	6
Arsenic	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.67	BDL	BDL	10
Barium	ug/l	19	8.9	13	4.0	2.4	3.9	11	13	11	2,000
Beryllium	ug/l	BDL	BDL	BDL	0.13	BDL	BDL	BDL	BDL	0.34	4
Cadmium	ug/l	BDL	0.39	BDL	BDL	BDL	BDL	1.4	0.49	2.7	5
Cobalt	ug/l	BDL	1.1	BDL	BDL	BDL	BDL	18	BDL	BDL	420
Copper	ug/l	1.3	1.6	0.49	0.25	0.13	0.15	1.2	0.45	2.0	1,000
Chloride	mg/l	6.7	17	25	3.9	8.2	8.2	22	7.0	3.5	250
Chromium	ug/l	0.86	7.3	1.1	3.7	7.2	3.1	4.2	7.2	9.6	100
Fluoride	mg/l	0.17	0.20	BDL	0.19	0.18	0.17	0.21	0.21	0.24	4
Gross Alpha	pCi/l	<1.5±1.2	6.2 ±1.1	3.4 ±1.2	2.4 ±1.2	<1.7±1.1	<1.7±1.4	7.3 ±1.6	5.5 ±1.1	11.7±1.5	15
Iron	ug/l	BDL	71	BDL	BDL	BDL	BDL	930	510	190	300
Lead	ug/l	0.083	0.095	BDL	0.12	BDL	BDL	0.10	0.32	0.84	15
Manganese	ug/l	8.3	7.1	5.3	0.33	1.1	0.87	88	20	4.1	50
Mercury	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.29	BDL	0.062	2
Nickel	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	5.5	BDL	BDL	100
Nitrate, as N	mg/l	1.4	6.7	4.2	4.4	5.8	2.0	BDL	3.0	0.22	10
pH	s.u.	7.04	7.21	7.06	9.27	7.8	7.34	6.53	6.94	6.58	6.5-8.5
Radium 226	pCi/l	0.4 ±0.2	0.7 ±0.2	0.7 ±0.2	0.2 ±0.1	0.4 ±0.2	<0.3±0.2	2.5 ±0.3	1.4 ±0.2	1.9 ±0.3	—
Radium 228	pCi/l	<0.9±0.6	0.8 ±0.5	<0.9±0.6	<0.9±0.6	<0.9±0.6	<0.8±0.5	0.9±0.6	0.9±0.6	1.1 ±0.6	—
Selenium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Silver	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
Sodium	mg/l	2.5	39	25	11	3.1	5.2	20	6.4	8.6	160
TDS	mg/l	170	310	380	74	180	200	510	290	300	500
Thallium	ug/l	BDL	0.10	0.23	BDL	BDL	BDL	0.19	0.091	0.16	2
Vanadium	ug/l	0.88	11	5.7	17	7.8	8.8	1.2	11	13	49
Zinc	ug/l	3.7	4.5	4.2	3.0	3.8	4.2	8.4	5.0	7.7	5,000

Notes: 1). BDL means below laboratory method detection limit


2). **Bold lettering** indicates result exceeds MCL/Guidance concentration

3). (v) indicates constituent found in laboratory method blank



LEGEND

MW-2

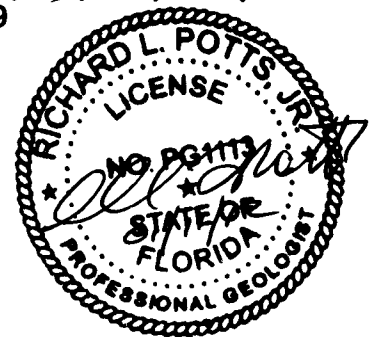

 Monitor Well Location
 43.73 Groundwater Elevation (ft, NGVD, 11/22/11)

43.9

Groundwater Contour (Potentiometric Surface, 11/22/11)



Estimated Groundwater Flow Direction (11/22/11)



The Colinas Group, Inc.
 377 Maitland Avenue
 Suite 2012
 Altamonte Springs, Florida 32701

PROJ. NO.: P-453
 DATE: NOVEMBER 2011
 SCALE: 1" = 200'

GROUNDWATER CONTOUR MAP
 NOVEMBER 22, 2011
 SUMTER COUNTY LANDFILL

FIGURE 1



ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863003**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-2**

Date Collected: 11/22/11 15:15

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	333	umhos/cm		1			11/22/2011 15:15	A^
Dissolved Oxygen	5	mg/L		1			11/22/2011 15:15	A^
Groundwater Elevation	43.9	feet		1			11/22/2011 15:15	A^
Temperature	27.32	°C		1			11/22/2011 15:15	A^
Turbidity	1.08	NTU		1			11/22/2011 15:15	A^
pH	7.04	pH unit		1			11/22/2011 15:15	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	11/30/2011 15:47	J
Barium	19	ug/L		1	2.0	0.28	11/30/2011 15:47	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 15:47	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/30/2011 15:47	J
Chromium	0.86	ug/L	I	1	4.0	0.50	11/30/2011 15:47	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 15:47	J
Iron	38	ug/L	U	1	200	38	11/30/2011 15:47	J
Manganese	8.3	ug/L		1	1.0	0.24	11/30/2011 15:47	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 15:47	J
Sodium	2.5	mg/L		1	0.20	0.026	11/30/2011 15:47	J
Vanadium	0.88	ug/L	I	1	1.5	0.18	11/30/2011 15:47	J
Zinc	3.7	ug/L	I	1	10	2.0	11/30/2011 15:47	J

Analysis Desc: SW846 6020B
Analysis, Total

Preparation Method: SW-846 3010A

Analytical Method: SW-846 6020

Antimony	1.0	ug/L	V	1	0.60	0.073	12/13/2011 20:48	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 20:48	J
Copper	1.3	ug/L		1	0.70	0.10	12/13/2011 20:48	J
Lead	0.083	ug/L	I	1	0.70	0.076	12/13/2011 20:48	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 20:48	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 20:48	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/13/2011 20:48	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	11/29/2011 12:46	J
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Report ID: 190195 - 4179738

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CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863003**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-2**

Date Collected: 11/22/11 15:15

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/29/2011 23:39	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/29/2011 23:39	J
Tetrachloro-m-xylene (S)	87	%		1	40.3-190		11/29/2011 23:39	

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	11/28/2011 20:39	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 20:39	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/28/2011 20:39	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 20:39	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/28/2011 20:39	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 20:39	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/28/2011 20:39	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/28/2011 20:39	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 20:39	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 20:39	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 20:39	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/28/2011 20:39	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/28/2011 20:39	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/28/2011 20:39	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/28/2011 20:39	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/28/2011 20:39	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/28/2011 20:39	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 20:39	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/28/2011 20:39	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 20:39	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/28/2011 20:39	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 20:39	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/28/2011 20:39	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/28/2011 20:39	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/28/2011 20:39	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/28/2011 20:39	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/28/2011 20:39	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 20:39	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 20:39	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863003**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-2**

Date Collected: 11/22/11 15:15

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	11/28/2011 20:39	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/28/2011 20:39	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/28/2011 20:39	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/28/2011 20:39	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/28/2011 20:39	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 20:39	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/28/2011 20:39	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 20:39	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 20:39	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/28/2011 20:39	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/28/2011 20:39	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/28/2011 20:39	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/28/2011 20:39	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 20:39	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 20:39	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/28/2011 20:39	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/28/2011 20:39	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/28/2011 20:39	J
1,2-Dichloroethane-d4 (S)	104	%		1	80-120		11/28/2011 20:39	
Toluene-d8 (S)	106	%		1	88-110		11/28/2011 20:39	
Bromofluorobenzene (S)	110	%		1	86-115		11/28/2011 20:39	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	6.7	mg/L	I	1	10	0.87	11/23/2011 13:17	A
Fluoride	0.17	mg/L	I	1	0.20	0.078	11/23/2011 13:17	A
Nitrate	1.4	mg/L		1	0.20	0.094	11/23/2011 13:17	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	170	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863004**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4**

Date Collected: 11/22/11 12:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	583	umhos/cm		1			11/22/2011 12:45	A^
Dissolved Oxygen	0.86	mg/L		1			11/22/2011 12:45	A^
Groundwater Elevation	43.7	feet		1			11/22/2011 12:45	A^
Temperature	26.7	°C		1			11/22/2011 12:45	A^
Turbidity	3.94	NTU		1			11/22/2011 12:45	A^
pH	7.21	pH unit		1			11/22/2011 12:45	A^

METALS

Analysis Desc: SW846 6010B

Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	160	ug/L	I	1	200	61	11/30/2011 15:52	J
Barium	8.9	ug/L		1	2.0	0.28	11/30/2011 15:52	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 15:52	J
Cadmium	0.39	ug/L	I	1	0.60	0.32	11/30/2011 15:52	J
Chromium	7.3	ug/L		1	4.0	0.50	11/30/2011 15:52	J
Cobalt	1.1	ug/L	I	1	4.0	0.60	11/30/2011 15:52	J
Iron	71	ug/L	I	1	200	38	11/30/2011 15:52	J
Manganese	7.1	ug/L		1	1.0	0.24	11/30/2011 15:52	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 15:52	J
Sodium	39	mg/L		1	0.20	0.026	11/30/2011 15:52	J
Vanadium	11	ug/L		1	1.5	0.18	11/30/2011 15:52	J
Zinc	4.5	ug/L	I	1	10	2.0	11/30/2011 15:52	J

Analysis Desc: SW846 6020B

Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	0.48	ug/L	I,V	1	0.60	0.073	12/13/2011 20:57	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 20:57	J
Copper	1.6	ug/L		1	0.70	0.10	12/13/2011 20:57	J
Lead	0.095	ug/L	I	1	0.70	0.076	12/13/2011 20:57	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 20:57	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 20:57	J
Thallium	0.10	ug/L	I	1	0.20	0.067	12/13/2011 20:57	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	11/29/2011 12:47	J
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863004**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4**

Date Collected: 11/22/11 12:45

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/30/2011 00:06	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/30/2011 00:06	J
Tetrachloro-m-xylene (S)	81	%		1	40.3-190		11/30/2011 00:06	

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	11/28/2011 23:39	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 23:39	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/28/2011 23:39	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 23:39	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/28/2011 23:39	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 23:39	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/28/2011 23:39	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/28/2011 23:39	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 23:39	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 23:39	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 23:39	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/28/2011 23:39	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/28/2011 23:39	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/28/2011 23:39	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/28/2011 23:39	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/28/2011 23:39	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/28/2011 23:39	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 23:39	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/28/2011 23:39	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 23:39	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/28/2011 23:39	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 23:39	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/28/2011 23:39	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/28/2011 23:39	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/28/2011 23:39	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/28/2011 23:39	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/28/2011 23:39	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 23:39	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 23:39	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863004**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4**

Date Collected: 11/22/11 12:45

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	11/28/2011 23:39	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/28/2011 23:39	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/28/2011 23:39	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/28/2011 23:39	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/28/2011 23:39	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 23:39	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/28/2011 23:39	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 23:39	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 23:39	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/28/2011 23:39	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/28/2011 23:39	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/28/2011 23:39	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/28/2011 23:39	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 23:39	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 23:39	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/28/2011 23:39	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/28/2011 23:39	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/28/2011 23:39	J
1,2-Dichloroethane-d4 (S)	105	%		1	80-120		11/28/2011 23:39	
Toluene-d8 (S)	105	%		1	88-110		11/28/2011 23:39	
Bromofluorobenzene (S)	109	%		1	86-115		11/28/2011 23:39	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	17	mg/L		1	10	0.87	11/23/2011 13:34	A
Fluoride	0.20	mg/L		1	0.20	0.078	11/23/2011 13:34	A
Nitrate	6.7	mg/L		1	0.20	0.094	11/23/2011 13:34	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	310	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863005**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 11/22/11 13:30

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	665	umhos/cm		1			11/22/2011 13:30	A^
Dissolved Oxygen	0.57	mg/L		1			11/22/2011 13:30	A^
Groundwater Elevation	43.86	feet		1			11/22/2011 13:30	A^
Temperature	26.69	°C		1			11/22/2011 13:30	A^
Turbidity	7.1	NTU		1			11/22/2011 13:30	A^
pH	7.06	pH unit		1			11/22/2011 13:30	A^

METALS

Analysis Desc: SW846 6010B

Preparation Method: SW-846 3010A

Analysis, Water

Analytical Method: SW-846 6010

Aluminum	79	ug/L	I	1	200	61	11/30/2011 15:57	J
Barium	13	ug/L		1	2.0	0.28	11/30/2011 15:57	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 15:57	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/30/2011 15:57	J
Chromium	1.1	ug/L	I	1	4.0	0.50	11/30/2011 15:57	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 15:57	J
Iron	38	ug/L	U	1	200	38	11/30/2011 15:57	J
Manganese	5.3	ug/L		1	1.0	0.24	11/30/2011 15:57	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 15:57	J
Sodium	25	mg/L		1	0.20	0.026	11/30/2011 15:57	J
Vanadium	5.7	ug/L		1	1.5	0.18	11/30/2011 15:57	J
Zinc	4.2	ug/L	I	1	10	2.0	11/30/2011 15:57	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	12/13/2011 21:06	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 21:06	J
Copper	0.49	ug/L	I	1	0.70	0.10	12/13/2011 21:06	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/13/2011 21:06	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 21:06	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 21:06	J
Thallium	0.23	ug/L		1	0.20	0.067	12/13/2011 21:06	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	11/29/2011 12:49	J
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863005**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 11/22/11 13:30

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/30/2011 00:33	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/30/2011 00:33	J
Tetrachloro-m-xylene (S)	79	%		1	40.3-190		11/30/2011 00:33	

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	11/29/2011 00:24	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 00:24	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2011 00:24	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 00:24	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2011 00:24	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 00:24	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2011 00:24	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2011 00:24	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 00:24	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 00:24	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 00:24	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2011 00:24	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2011 00:24	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2011 00:24	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2011 00:24	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2011 00:24	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2011 00:24	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 00:24	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2011 00:24	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 00:24	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2011 00:24	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 00:24	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2011 00:24	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2011 00:24	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2011 00:24	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2011 00:24	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2011 00:24	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 00:24	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 00:24	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863005**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4A**

Date Collected: 11/22/11 13:30

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	11/29/2011 00:24	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2011 00:24	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2011 00:24	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2011 00:24	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2011 00:24	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 00:24	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2011 00:24	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 00:24	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 00:24	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2011 00:24	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2011 00:24	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2011 00:24	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2011 00:24	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 00:24	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 00:24	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2011 00:24	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2011 00:24	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2011 00:24	J
1,2-Dichloroethane-d4 (S)	106	%		1	80-120		11/29/2011 00:24	
Toluene-d8 (S)	105	%		1	88-110		11/29/2011 00:24	
Bromofluorobenzene (S)	110	%		1	86-115		11/29/2011 00:24	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	25	mg/L		1	10	0.87	11/23/2011 13:52	A
Fluoride	0.078	mg/L	U	1	0.20	0.078	11/23/2011 13:52	A
Nitrate	4.2	mg/L		1	0.20	0.094	11/23/2011 13:52	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	380	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863006**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4B**

Date Collected: 11/22/11 11:44

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	139	umhos/cm		1			11/22/2011 11:44	A^
Dissolved Oxygen	5.11	mg/L		1			11/22/2011 11:44	A^
Groundwater Elevation	43.88	feet		1			11/22/2011 11:44	A^
Temperature	25.81	°C		1			11/22/2011 11:44	A^
Turbidity	4.45	NTU		1			11/22/2011 11:44	A^
pH	9.27	pH unit		1			11/22/2011 11:44	A^
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Aluminum	460	ug/L		1	200	61	11/30/2011 16:02	J
Barium	4.0	ug/L		1	2.0	0.28	11/30/2011 16:02	J
Beryllium	0.13	ug/L	I	1	0.30	0.13	11/30/2011 16:02	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/30/2011 16:02	J
Chromium	3.7	ug/L	I	1	4.0	0.50	11/30/2011 16:02	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 16:02	J
Iron	38	ug/L	U	1	200	38	11/30/2011 16:02	J
Manganese	0.33	ug/L	I	1	1.0	0.24	11/30/2011 16:02	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 16:02	J
Sodium	11	mg/L		1	0.20	0.026	11/30/2011 16:02	J
Vanadium	17	ug/L		1	1.5	0.18	11/30/2011 16:02	J
Zinc	3.0	ug/L	I	1	10	2.0	11/30/2011 16:02	J
Analysis Desc: SW846 6020B			Preparation Method: SW-846 3010A					
Analysis, Total			Analytical Method: SW-846 6020					
Antimony	0.23	ug/L	I, V	1	0.60	0.073	12/13/2011 21:15	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 21:15	J
Copper	0.25	ug/L	I	1	0.70	0.10	12/13/2011 21:15	J
Lead	0.12	ug/L	I	1	0.70	0.076	12/13/2011 21:15	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 21:15	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 21:15	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/13/2011 21:15	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	11/29/2011 12:51	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863006**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4B**

Date Collected: 11/22/11 11:44

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/30/2011 01:00	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/30/2011 01:00	J
Tetrachloro-m-xylene (S)	80	%		1	40.3-190		11/30/2011 01:00	
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	11/29/2011 01:09	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:09	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2011 01:09	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 01:09	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2011 01:09	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:09	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2011 01:09	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2011 01:09	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 01:09	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:09	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:09	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2011 01:09	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2011 01:09	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2011 01:09	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2011 01:09	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2011 01:09	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2011 01:09	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 01:09	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2011 01:09	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 01:09	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2011 01:09	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 01:09	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2011 01:09	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2011 01:09	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2011 01:09	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2011 01:09	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2011 01:09	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:09	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 01:09	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863006**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-4B**

Date Collected: 11/22/11 11:44

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	11/29/2011 01:09	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2011 01:09	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2011 01:09	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2011 01:09	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2011 01:09	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 01:09	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2011 01:09	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 01:09	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 01:09	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2011 01:09	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2011 01:09	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2011 01:09	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2011 01:09	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 01:09	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:09	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2011 01:09	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2011 01:09	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2011 01:09	J
1,2-Dichloroethane-d4 (S)	107	%		1	80-120		11/29/2011 01:09	
Toluene-d8 (S)	106	%		1	88-110		11/29/2011 01:09	
Bromofluorobenzene (S)	109	%		1	86-115		11/29/2011 01:09	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	3.9	mg/L	I	1	10	0.87	11/23/2011 14:09	A
Fluoride	0.19	mg/L	I	1	0.20	0.078	11/23/2011 14:09	A
Nitrate	4.4	mg/L		1	0.20	0.094	11/23/2011 14:09	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	74	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863007**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-6A**

Date Collected: 11/22/11 16:45

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	255	umhos/cm		1			11/22/2011 16:45	A^
Dissolved Oxygen	6.72	mg/L		1			11/22/2011 16:45	A^
Groundwater Elevation	44.12	feet		1			11/22/2011 16:45	A^
Temperature	24.44	°C		1			11/22/2011 16:45	A^
Turbidity	7.11	NTU		1			11/22/2011 16:45	A^
pH	7.8	pH unit		1			11/22/2011 16:45	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	11/30/2011 16:08	J
Barium	2.4	ug/L		1	2.0	0.28	11/30/2011 16:08	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 16:08	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/30/2011 16:08	J
Chromium	7.2	ug/L		1	4.0	0.50	11/30/2011 16:08	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 16:08	J
Iron	38	ug/L	U	1	200	38	11/30/2011 16:08	J
Manganese	1.1	ug/L		1	1.0	0.24	11/30/2011 16:08	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 16:08	J
Sodium	3.1	mg/L		1	0.20	0.026	11/30/2011 16:08	J
Vanadium	7.8	ug/L		1	1.5	0.18	11/30/2011 16:08	J
Zinc	3.8	ug/L	I	1	10	2.0	11/30/2011 16:08	J

Analysis Desc: SW846 6020B
Analysis, Total

Preparation Method: SW-846 3010A

Analytical Method: SW-846 6020

Antimony	0.15	ug/L	I,V	1	0.60	0.073	12/13/2011 21:25	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 21:25	J
Copper	0.13	ug/L	I	1	0.70	0.10	12/13/2011 21:25	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/13/2011 21:25	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 21:25	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 21:25	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/13/2011 21:25	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	11/29/2011 12:52	J
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863007**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-6A**

Date Collected: 11/22/11 16:45

Sample Description:

Location:

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	0.0058	ug/L	U	1	0.019	0.0058	11/30/2011 01:27	J
Ethylene Dibromide (EDB)	0.0060	ug/L	U	1	0.019	0.0060	11/30/2011 01:27	J
Tetrachloro-m-xylene (S)	89	%		1	40.3-190		11/30/2011 01:27	

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	11/29/2011 01:54	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:54	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2011 01:54	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 01:54	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2011 01:54	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:54	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2011 01:54	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2011 01:54	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 01:54	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:54	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:54	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2011 01:54	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2011 01:54	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2011 01:54	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2011 01:54	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2011 01:54	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2011 01:54	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 01:54	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2011 01:54	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 01:54	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2011 01:54	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 01:54	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2011 01:54	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2011 01:54	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2011 01:54	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2011 01:54	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2011 01:54	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:54	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 01:54	J

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

ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863007**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-6A**

Date Collected: 11/22/11 16:45

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	11/29/2011 01:54	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2011 01:54	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2011 01:54	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2011 01:54	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2011 01:54	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 01:54	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2011 01:54	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 01:54	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 01:54	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2011 01:54	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2011 01:54	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2011 01:54	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2011 01:54	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 01:54	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 01:54	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2011 01:54	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2011 01:54	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2011 01:54	J
1,2-Dichloroethane-d4 (S)	105	%		1	80-120		11/29/2011 01:54	
Toluene-d8 (S)	106	%		1	88-110		11/29/2011 01:54	
Bromofluorobenzene (S)	110	%		1	86-115		11/29/2011 01:54	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	8.2	mg/L	I	1	10	0.87	11/23/2011 15:01	A
Fluoride	0.18	mg/L	I	1	0.20	0.078	11/23/2011 15:01	A
Nitrate	5.8	mg/L		1	0.20	0.094	11/23/2011 15:01	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	180	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863008**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-8**

Date Collected: 11/22/11 09:48

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	347	umhos/cm		1			11/22/2011 09:48	A^
Dissolved Oxygen	3.48	mg/L		1			11/22/2011 09:48	A^
Groundwater Elevation	45.13	feet		1			11/22/2011 09:48	A^
Temperature	24.32	°C		1			11/22/2011 09:48	A^
Turbidity	2.38	NTU		1			11/22/2011 09:48	A^
pH	7.34	pH unit		1			11/22/2011 09:48	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	11/30/2011 16:13	J
Barium	3.9	ug/L		1	2.0	0.28	11/30/2011 16:13	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 16:13	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/30/2011 16:13	J
Chromium	3.1	ug/L	I	1	4.0	0.50	11/30/2011 16:13	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 16:13	J
Iron	38	ug/L	U	1	200	38	11/30/2011 16:13	J
Manganese	0.87	ug/L	I	1	1.0	0.24	11/30/2011 16:13	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 16:13	J
Sodium	5.2	mg/L		1	0.20	0.026	11/30/2011 16:13	J
Vanadium	8.8	ug/L		1	1.5	0.18	11/30/2011 16:13	J
Zinc	4.2	ug/L	I	1	10	2.0	11/30/2011 16:13	J

Analysis Desc: SW846 6020B

Preparation Method: SW-846 3010A

Analysis, Total

Analytical Method: SW-846 6020

Antimony	0.20	ug/L	I,V	1	0.60	0.073	12/13/2011 21:34	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 21:34	J
Copper	0.15	ug/L	I	1	0.70	0.10	12/13/2011 21:34	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/13/2011 21:34	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 21:34	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 21:34	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/13/2011 21:34	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	11/29/2011 13:52	J
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863008**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-8**

Date Collected: 11/22/11 09:48

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/30/2011 01:54	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/30/2011 01:54	J
Tetrachloro-m-xylene (S)	87	%		1	40.3-190		11/30/2011 01:54	

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	11/29/2011 02:39	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 02:39	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2011 02:39	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 02:39	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2011 02:39	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 02:39	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2011 02:39	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2011 02:39	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 02:39	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 02:39	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 02:39	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2011 02:39	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2011 02:39	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2011 02:39	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2011 02:39	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2011 02:39	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2011 02:39	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 02:39	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2011 02:39	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 02:39	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2011 02:39	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 02:39	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2011 02:39	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2011 02:39	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2011 02:39	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2011 02:39	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2011 02:39	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 02:39	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 02:39	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863008**
Sample ID: **MW-8**

Date Received: 11/23/11 10:52 Matrix: Water
Date Collected: 11/22/11 09:48

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	11/29/2011 02:39	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2011 02:39	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2011 02:39	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2011 02:39	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2011 02:39	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 02:39	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2011 02:39	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 02:39	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 02:39	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2011 02:39	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2011 02:39	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2011 02:39	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2011 02:39	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 02:39	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 02:39	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2011 02:39	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2011 02:39	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2011 02:39	J
1,2-Dichloroethane-d4 (S)	107	%		1	80-120		11/29/2011 02:39	
Toluene-d8 (S)	106	%		1	88-110		11/29/2011 02:39	
Bromofluorobenzene (S)	111	%		1	86-115		11/29/2011 02:39	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	8.2	mg/L	I	1	10	0.87	11/23/2011 15:19	A
Fluoride	0.17	mg/L	I	1	0.20	0.078	11/23/2011 15:19	A
Nitrate	2.0	mg/L		1	0.20	0.094	11/23/2011 15:19	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	200	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863009**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-9A**

Date Collected: 11/22/11 09:05

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	913	umhos/cm		1			11/22/2011 09:05	A^
Dissolved Oxygen	0.62	mg/L		1			11/22/2011 09:05	A^
Groundwater Elevation	42.94	feet		1			11/22/2011 09:05	A^
Temperature	25.06	°C		1			11/22/2011 09:05	A^
Turbidity	3	NTU		1			11/22/2011 09:05	A^
pH	6.53	pH unit		1			11/22/2011 09:05	A^

METALS

Analysis Desc: SW846 6010B
Analysis, Water

Preparation Method: SW-846 3010A

Analytical Method: SW-846 6010

Aluminum	140	ug/L	I	1	200	61	11/30/2011 16:18	J
Barium	11	ug/L		1	2.0	0.28	11/30/2011 16:18	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 16:18	J
Cadmium	1.4	ug/L		1	0.60	0.32	11/30/2011 16:18	J
Chromium	4.2	ug/L		1	4.0	0.50	11/30/2011 16:18	J
Cobalt	18	ug/L		1	4.0	0.60	11/30/2011 16:18	J
Iron	930	ug/L		1	200	38	11/30/2011 16:18	J
Manganese	88	ug/L		1	1.0	0.24	11/30/2011 16:18	J
Nickel	5.5	ug/L	I	1	6.5	1.1	11/30/2011 16:18	J
Sodium	20	mg/L		1	0.20	0.026	11/30/2011 16:18	J
Vanadium	1.2	ug/L	I	1	1.5	0.18	11/30/2011 16:18	J
Zinc	8.4	ug/L	I	1	10	2.0	11/30/2011 16:18	J

Analysis Desc: SW846 6020B
Analysis, Total

Preparation Method: SW-846 3010A

Analytical Method: SW-846 6020

Antimony	0.20	ug/L	I,V	1	0.60	0.073	12/13/2011 21:43	J
Arsenic	0.67	ug/L	I	1	1.0	0.36	12/13/2011 21:43	J
Copper	1.2	ug/L		1	0.70	0.10	12/13/2011 21:43	J
Lead	0.10	ug/L	I	1	0.70	0.076	12/13/2011 21:43	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 21:43	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 21:43	J
Thallium	0.19	ug/L	I	1	0.20	0.067	12/13/2011 21:43	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.29	ug/L		1	0.10	0.014	11/29/2011 13:54	J
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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: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863009**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-9A**

Date Collected: 11/22/11 09:05

Sample Description:

Location:

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	0.0058	ug/L	U	1	0.019	0.0058	11/30/2011 02:21	J
Ethylene Dibromide (EDB)	0.0059	ug/L	U	1	0.019	0.0059	11/30/2011 02:21	J
Tetrachloro-m-xylene (S)	84	%		1	40.3-190		11/30/2011 02:21	

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	11/29/2011 03:24	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 03:24	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/29/2011 03:24	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 03:24	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/29/2011 03:24	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 03:24	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/29/2011 03:24	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/29/2011 03:24	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 03:24	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 03:24	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 03:24	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/29/2011 03:24	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/29/2011 03:24	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/29/2011 03:24	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/29/2011 03:24	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/29/2011 03:24	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/29/2011 03:24	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 03:24	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/29/2011 03:24	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 03:24	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/29/2011 03:24	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/29/2011 03:24	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/29/2011 03:24	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/29/2011 03:24	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/29/2011 03:24	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/29/2011 03:24	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/29/2011 03:24	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/29/2011 03:24	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/29/2011 03:24	J

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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: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863009**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-9A**

Date Collected: 11/22/11 09:05

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	11/29/2011 03:24	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/29/2011 03:24	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/29/2011 03:24	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/29/2011 03:24	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/29/2011 03:24	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/29/2011 03:24	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/29/2011 03:24	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 03:24	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/29/2011 03:24	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/29/2011 03:24	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/29/2011 03:24	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/29/2011 03:24	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/29/2011 03:24	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/29/2011 03:24	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/29/2011 03:24	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/29/2011 03:24	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/29/2011 03:24	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/29/2011 03:24	J
1,2-Dichloroethane-d4 (S)	104	%		1	80-120		11/29/2011 03:24	
Toluene-d8 (S)	105	%		1	88-110		11/29/2011 03:24	
Bromofluorobenzene (S)	109	%		1	86-115		11/29/2011 03:24	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	22	mg/L		1	10	0.87	11/23/2011 15:36	A
Fluoride	0.21	mg/L		1	0.20	0.078	11/23/2011 15:36	A
Nitrate	0.094	mg/L	U	1	0.20	0.094	11/23/2011 15:36	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.27	mg/L		1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	510	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863001**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-10**

Date Collected: 11/22/11 10:50

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	530	umhos/cm		1			11/22/2011 10:50	A^
Dissolved Oxygen	1.64	mg/L		1			11/22/2011 10:50	A^
Groundwater Elevation	43.98	feet		1			11/22/2011 10:50	A^
Temperature	25.07	°C		1			11/22/2011 10:50	A^
Turbidity	9.16	NTU		1			11/22/2011 10:50	A^
pH	6.94	pH unit		1			11/22/2011 10:50	A^
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Aluminum	530	ug/L		1	200	61	11/30/2011 14:54	J
Barium	13	ug/L		1	2.0	0.28	11/30/2011 14:54	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 14:54	J
Cadmium	0.49	ug/L	I	1	0.60	0.32	11/30/2011 14:54	J
Chromium	7.2	ug/L		1	4.0	0.50	11/30/2011 14:54	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 14:54	J
Iron	510	ug/L		1	200	38	11/30/2011 14:54	J
Manganese	20	ug/L		1	1.0	0.24	11/30/2011 14:54	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 14:54	J
Sodium	6.4	mg/L		1	0.20	0.026	11/30/2011 14:54	J
Vanadium	11	ug/L		1	1.5	0.18	11/30/2011 14:54	J
Zinc	5.0	ug/L	I	1	10	2.0	11/30/2011 14:54	J
Analysis Desc: SW846 6020B			Preparation Method: SW-846 3010A					
Analysis, Total			Analytical Method: SW-846 6020					
Antimony	0.37	ug/L	I,V	1	0.60	0.073	12/13/2011 19:33	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 19:33	J
Copper	0.45	ug/L	I	1	0.70	0.10	12/13/2011 19:33	J
Lead	0.32	ug/L	I	1	0.70	0.076	12/13/2011 19:33	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 19:33	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 19:33	J
Thallium	0.091	ug/L	I	1	0.20	0.067	12/13/2011 19:33	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	11/29/2011 12:30	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863001**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-10**

Date Collected: 11/22/11 10:50

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/29/2011 22:47	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/29/2011 22:47	J
Tetrachloro-m-xylene (S)	96	%		1	40.3-190		11/29/2011 22:47	

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	11/28/2011 19:08	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:08	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/28/2011 19:08	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 19:08	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/28/2011 19:08	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:08	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/28/2011 19:08	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/28/2011 19:08	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 19:08	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:08	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:08	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/28/2011 19:08	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/28/2011 19:08	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/28/2011 19:08	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/28/2011 19:08	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/28/2011 19:08	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/28/2011 19:08	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 19:08	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/28/2011 19:08	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 19:08	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/28/2011 19:08	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 19:08	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/28/2011 19:08	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/28/2011 19:08	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/28/2011 19:08	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/28/2011 19:08	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/28/2011 19:08	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:08	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 19:08	J

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863001**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-10**

Date Collected: 11/22/11 10:50

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	11/28/2011 19:08	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/28/2011 19:08	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/28/2011 19:08	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/28/2011 19:08	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/28/2011 19:08	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 19:08	J
Tetrachloroethylene (PCE)	0.59	ug/L	U,J4	1	1.0	0.59	11/28/2011 19:08	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 19:08	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 19:08	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/28/2011 19:08	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/28/2011 19:08	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/28/2011 19:08	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/28/2011 19:08	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 19:08	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:08	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/28/2011 19:08	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/28/2011 19:08	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/28/2011 19:08	J
1,2-Dichloroethane-d4 (S)	104	%		1	80-120		11/28/2011 19:08	
Toluene-d8 (S)	104	%		1	88-110		11/28/2011 19:08	
Bromofluorobenzene (S)	110	%		1	86-115		11/28/2011 19:08	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	7.0	mg/L	I	1	10	0.87	11/23/2011 12:42	A
Fluoride	0.21	mg/L		1	0.20	0.078	11/23/2011 12:42	A
Nitrate	3.0	mg/L		1	0.20	0.094	11/23/2011 12:42	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	290	mg/L		1	10	10	11/28/2011 15:21	T
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863002**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-11**

Date Collected: 11/22/11 14:18

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance			Analytical Method: DISRES					
Conductance	559	umhos/cm		1			11/22/2011 14:18	A^
Dissolved Oxygen	0.79	mg/L		1			11/22/2011 14:18	A^
Groundwater Elevation	43.78	feet		1			11/22/2011 14:18	A^
Temperature	25.95	°C		1			11/22/2011 14:18	A^
Turbidity	14.8	NTU		1			11/22/2011 14:18	A^
pH	6.58	pH unit		1			11/22/2011 14:18	A^

METALS

Analysis Desc: SW846 6010B
Analysis, Water

Preparation Method: SW-846 3010A

Analytical Method: SW-846 6010

Aluminum	1100	ug/L		1	200	61	11/30/2011 15:42	J
Barium	11	ug/L		1	2.0	0.28	11/30/2011 15:42	J
Beryllium	0.34	ug/L		1	0.30	0.13	11/30/2011 15:42	J
Cadmium	2.7	ug/L		1	0.60	0.32	11/30/2011 15:42	J
Chromium	9.6	ug/L		1	4.0	0.50	11/30/2011 15:42	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 15:42	J
Iron	190	ug/L	I	1	200	38	11/30/2011 15:42	J
Manganese	4.1	ug/L		1	1.0	0.24	11/30/2011 15:42	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 15:42	J
Sodium	8.6	mg/L		1	0.20	0.026	11/30/2011 15:42	J
Vanadium	13	ug/L		1	1.5	0.18	11/30/2011 15:42	J
Zinc	7.7	ug/L	I	1	10	2.0	11/30/2011 15:42	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	12/13/2011 20:20	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 20:20	J
Copper	2.0	ug/L		1	0.70	0.10	12/13/2011 20:20	J
Lead	0.84	ug/L		1	0.70	0.076	12/13/2011 20:20	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 20:20	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 20:20	J
Thallium	0.16	ug/L	I	1	0.20	0.067	12/13/2011 20:20	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.062	ug/L	I	1	0.10	0.014	11/29/2011 12:44	J
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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863002**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-11**

Date Collected: 11/22/11 14:18

Sample Description:

Location:

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	0.0059	ug/L	U	1	0.020	0.0059	11/29/2011 23:12	J
Ethylene Dibromide (EDB)	0.0061	ug/L	U	1	0.020	0.0061	11/29/2011 23:12	J
Tetrachloro-m-xylene (S)	93	%		1	40.3-190		11/29/2011 23:12	
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	11/28/2011 19:53	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:53	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/28/2011 19:53	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 19:53	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/28/2011 19:53	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:53	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/28/2011 19:53	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/28/2011 19:53	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 19:53	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:53	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:53	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/28/2011 19:53	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/28/2011 19:53	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/28/2011 19:53	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/28/2011 19:53	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/28/2011 19:53	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/28/2011 19:53	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 19:53	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/28/2011 19:53	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 19:53	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/28/2011 19:53	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 19:53	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/28/2011 19:53	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/28/2011 19:53	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/28/2011 19:53	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/28/2011 19:53	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/28/2011 19:53	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:53	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 19:53	J

Report ID: 190195 - 4179738

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863002**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **MW-11**

Date Collected: 11/22/11 14:18

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	11/28/2011 19:53	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/28/2011 19:53	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/28/2011 19:53	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/28/2011 19:53	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/28/2011 19:53	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 19:53	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/28/2011 19:53	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 19:53	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 19:53	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/28/2011 19:53	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/28/2011 19:53	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/28/2011 19:53	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/28/2011 19:53	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 19:53	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 19:53	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/28/2011 19:53	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/28/2011 19:53	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/28/2011 19:53	J
1,2-Dichloroethane-d4 (S)	107	%		1	80-120		11/28/2011 19:53	
Toluene-d8 (S)	104	%		1	88-110		11/28/2011 19:53	
Bromofluorobenzene (S)	110	%		1	86-115		11/28/2011 19:53	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	3.5	mg/L	I	1	10	0.87	11/23/2011 12:59	A
Fluoride	0.24	mg/L		1	0.20	0.078	11/23/2011 12:59	A
Nitrate	0.22	mg/L		1	0.20	0.094	11/23/2011 12:59	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
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Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	300	mg/L		1	10	10	11/28/2011 15:21	T
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Florida Radiochemistry Services, Inc.

Contact: Michael J. Naumann

5456 Hoffner Ave., Suite 201 Orlando, FL 32812

Phone: (407) 382-7733 Fax: (407) 382-7744

Certification I. D. # E83033

Work Order #: 1111178

Report Date: 12/07/11

Report to:

Advanced Environmental Laboratories, Inc.

528 S. North Lake Blvd., Ste. 1016

Altamonte Springs, FL 32701

Attention: Myrna Santiago

I do hereby affirm that this record contains no willful misrepresentations and that this information given by me is true to the best of my knowledge and belief. I further certify that the methods and quality control measures used to produce these laboratory results were implemented in accordance with the requirements of this laboratory's certification and NELAC Standards. The test results in this report relate only to the samples received.

Signed

Michael J. Naumann - President
Shawn M. Naumann - Laboratory Manager

Date

12-7-11

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Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	1111178-01	1111178-02	1111178-03	1111178-04	1111178-05	1111178-06
Client I.D.	<i>MW-10</i> A1108863 001	<i>MW-11</i> A1108863 002	<i>MW-2</i> A1108863 003	<i>MW-4</i> A1108863 004	<i>MW-4A</i> A1108863 005	<i>MW-4B</i> A1108863 006
Gross Alpha	5.5	11.7	1.5U	6.2	3.4	2.4
Error +/-	1.1	1.5	1.2	1.1	1.2	1.2
MDL	1.4	1.0	1.5	1.0	1.4	1.2
EPA Method	900.0	900.0	900.0	900.0	900.0	900.0
Prep Date	11/30/11	11/30/11	11/30/11	11/30/11	11/30/11	11/30/11
Prep Time	06:16	06:16	06:16	06:16	06:16	06:16
Analysis Date	12/01/11	12/01/11	12/01/11	12/01/11	12/01/11	12/01/11
Analysis Time	13:00	13:38	06:44	13:38	13:38	06:50
Analyst	MJN	MJN	MJN	MJN	MJN	MJN
Radium 226	1.4	1.9	0.4	0.7	0.7	0.2
Error +/-	0.2	0.3	0.2	0.2	0.2	0.1
MDL	0.2	0.2	0.3	0.1	0.2	0.2
EPA Method	903.1	903.1	903.1	903.1	903.1	903.1
Prep Date	11/30/11	11/30/11	11/30/11	11/30/11	11/30/11	11/30/11
Prep Time	08:43	08:43	08:43	08:43	08:43	08:43
Analysis Date	12/06/11	12/06/11	12/06/11	12/06/11	12/06/11	12/06/11
Analysis Time	10:07	10:07	10:07	10:07	10:07	11:10
Analyst	MJN	MJN	MJN	MJN	MJN	MJN
Radium 228	0.9U	1.1	0.9U	0.8U	0.9U	0.9U
Error +/-	0.6	0.6	0.6	0.5	0.6	0.6
MDL	0.9	0.9	0.9	0.8	0.9	0.9
EPA Method	Ra-05	Ra-05	Ra-05	Ra-05	Ra-05	Ra-05
Prep Date	11/30/11	11/30/11	11/30/11	11/30/11	11/30/11	11/30/11
Prep Time	08:43	08:43	08:43	08:43	08:43	08:43
Analysis Date	12/06/11	12/06/11	12/06/11	12/06/11	12/06/11	12/06/11
Analysis Time	10:31	10:31	10:31	10:31	10:31	10:31
Analyst	SN	SN	SN	SN	SN	SN
Units	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D. 1111178-07 1111178-08 1111178-09 1111178-10

Client I.D.	<i>mw-6A</i> A1108863 007	<i>mw-B</i> A1108863 008	<i>mw-9A</i> A1108863 009	<i>TRIP BLANK</i> A1108863 010
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Gross Alpha	1.7U	1.7U	7.3	0.6U
Error +/-	1.1	1.4	1.6	0.4
MDL	1.7	1.7	1.6	0.6
EPA Method	900.0	900.0	900.0	900.0
Prep Date	11/30/11	11/30/11	11/30/11	11/30/11
Prep Time	06:16	06:16	06:16	06:16
Analysis Date	12/01/11	12/01/11	12/01/11	12/01/11
Analysis Time	06:50	06:50	09:48	06:58
Analyst	MJN	MJN	MJN	MJN

Radium 226	0.4	0.3U	2.5	0.2U
Error +/-	0.2	0.2	0.3	0.1
MDL	0.2	0.3	0.2	0.2
EPA Method	903.1	903.1	903.1	903.1
Prep Date	11/30/11	11/30/11	11/30/11	11/30/11
Prep Time	08:43	08:43	08:43	08:43
Analysis Date	12/06/11	12/06/11	12/06/11	12/06/11
Analysis Time	11:10	11:10	11:10	11:10
Analyst	MJN	MJN	MJN	MJN

Radium 228	0.9U	0.8U	0.9U	0.9U
Error +/-	0.6	0.5	0.6	0.5
MDL	0.9	0.8	0.9	0.9
EPA Method	Ra-05	Ra-05	Ra-05	Ra-05
Prep Date	11/30/11	11/30/11	11/30/11	11/30/11
Prep Time	08:43	08:43	08:43	08:43
Analysis Date	12/06/11	12/06/11	12/06/11	12/06/11
Analysis Time	10:31	11:32	11:32	11:32
Analyst	SN	SN	SN	SN

Units	pCi/l	pCi/l	pCi/l	pCi/l
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Well Water Levels

P. 453

De la Claytor

Seamster County Landfill

11/22/11

LOCATION:

TIME	COMMENTS
Well #	WL (ft, bto c)
MW-1	26.55'
MW-2	25.23'
MW-2A	28.30'
MW-4	26.66'
MW-4A	31.87'
MW-4B	29.25'
MW-4C	27.35'
MW-4D	29.74'
MW-6A	33.42'
MW-7	29.26'
MW-8	24.13'
MW-9	28.84'
MW-9A	31.32'
MW-10	24.30'
MW-11	26.43'

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-2		SAMPLE ID: MW-2	
		DATE: 11/22/11	

PURGING DATA

WELL 2" PVC		TUBING 3/8"		WELL SCREEN INTERVAL		STATIC DEPTH 25.23'		PURGE PUMP TYPE			
DIAMETER (inches):		DIAMETER (inches):		DEPTH: feet to feet		TO WATER (feet):		OR BAILER: PP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
only fill out if applicable											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
only fill out if applicable											
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + .125 gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'		PURGING INITIATED AT: 1439		PURGING ENDED AT: 1457		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. (µS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1453	1.12	1.12	.08	25.38	7.07	22.31	337	4.72	1.59	Clear	None
1455	1.16	1.28	.08	25.38	7.06	22.30	335	4.69	1.31	Clear	None
1457	1.16	1.44	.08	25.38	7.04	22.32	333	5.00	1.08	Clear	None
No shams											
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; 6" = 1.02; 8" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal/ft): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.				SAMPLER(S) SIGNATURES: 				SAMPLING INITIATED AT: 1458		SAMPLING ENDED AT: 1515	
PUMP OR TUBING DEPTH IN WELL (feet): ~27'				SAMPLE RATE (ml per minute): < 250 mL				TUBING		MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N				FIELD-FILTERED: (Y) N				FILTER SIZE: µm		DUPLICATE: (Y) (N)	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-2	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA226RA228		APP		
"	1	PE	250 mL	H2S04	None	—	Total Ammonia		APP		
"	1	PE	250 mL	HN03	None	—	Metals		APP		
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS		APP		

REMARKS: 6 Various Various Various None App: Param RFP/APP

1439: Set dedicated 1/4" PE tubing @ ~27' stoc and began purging @ .08 gpm with a PP.

1444: WL 25.38' @ .08 gpm, GW is clear. DO is high @ 5.05 mg/L, but is typical for this well. Will use optional stabilization criteria below.

1450: WL 25.38' @ .08 gpm, draw down is stable. GW is clear. All parameters are either within range or are stable.

1452: WL 25.38' @ .08 gpm.

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 3H): ± 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: 11/22/11	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL	STATIC DEPTH 26.66	PURGE PUMP TYPE							
DIAMETER (Inches):	DIAMETER (Inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
1 Well Vol = (36.35' - 26.66') X .16 gallons/foot = 1.5984 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + .125 gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1216	PURGING ENDED AT: 1231	TOTAL VOLUME PURGED (gallons): 3.00							
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)
1227	2.20	2.20	.2	27.05	7.22	26.62	582	.77	2.53	Clear	None
1229	.4	2.60	.2	27.00	7.21	26.65	583	.76	4.84	Clear	None
1231	.4	3.00	.2	27.00	7.21	26.70	583	.86	3.94	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: H. L. Claytor, Colinas Group, Inc.		SAMPLE(S) SIGNATURES: 		SAMPLING INITIATED AT: 1232	SAMPLING ENDED AT: 1245			
PUMP OR TUBING DEPTH IN WELL (feet): ~30'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		TUBING MATERIAL CODE: PE				
FIELD DECONTAMINATION: (Y) N		FIELD FILTERED: Y (N) FILTER SIZE: µm		DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
MW-4	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA228RA228	ESP
"	1	PE	250 mL	H2SO4	None	—	Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

6 Various Various Various None App I Forms ESP

1216: Inserted SS ESP and dedicated 3/8" PE tubing to ~30' b/c and began purging @ .2 gpm.
1223: WL 27.05' @ .2 gpm, GW is clear.
1225: WL 27.06' @ .2 gpm, drawdown is stable. All parameters are within 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: 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 ± 6 NTU or ± 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-4A	SAMPLE ID: MW-4A	DATE: 11/22/11	

PURGING DATA

WELL 2" PVC DIAMETER (inches):	TUBING 3/8" DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH 31.87 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				
= (45.23' feet - 31.87' feet) X 0.006 gallons/foot = 0.080 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X 3 = 1.285 gallons (only fill out if applicable)				
1 Equip Vol = .02 gallons + (.006 gallons/foot X 45.23' feet) + .125 gallons = 0.295 gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1316	TOTAL VOLUME PURGED (gallons): 3.20

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)
1312	2.40	2.40	.2	32.00	7.06	26.64	665	.72	13.5	Clear	None
1314	.4	2.80	.2	32.00	7.06	26.67	665	.63	11.6	Clear	None
1316	.4	3.20	.2	32.00	7.06	26.69	665	.57	7.10	Clear	None
No stream											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.18; 3" = 0.37; 4" = 0.85; 6" = 1.02; 8" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Collins Group, Inc.		SAMPLER(S) SIGNATURES: <i>[Signature]</i>		SAMPLING INITIATED AT: 1317	SAMPLING ENDED AT: 1330
PUMP OR TUBING DEPTH IN WELL (feet): 40'		SAMPLE PUMP FLOW RATE (ml per minute): < 250 mL		MATERIAL CODE: PE	
FIELD DECONTAMINATION: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		FIELD-FILTERED: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N FILTER SIZE: <input type="text"/> µm		DUPLICATE: <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-4A	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA226RA228	ESP
"	1	PE	250 mL	H2884	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

6 Various Various Various None — App'l Params ESP
1300: Inserted SS ESP and dedicated 3/8" PE tubing to ~40' btoe and began purging @ .2 gpm. This well is typically turbid at beginning of purge requiring our purging to clear it up.
1306: Turbidity is @ 38 NTUs, continuing purge. WL 32.00' @ .2 gpm.
1311: Turbidity is @ 17 NTUs. WL 32.00' @ .2 gpm and is stable. All parameters are within 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: 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):

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)

DEP-SOP-001/01
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill				SITE LOCATION: Sumterville, FL			
WELL NO: MW-4B				SAMPLE ID: MW-4B		DATE: 11/22/11	
PURGING DATA							
WELL 2" PVC		TUBING 3/8"		WELL SCREEN INTERVAL		STATIC DEPTH 29.95	
DIAMETER (inches):		DIAMETER (inches):		DEPTH: feet to feet		TO WATER (feet):	
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY							
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME							
1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + gallons = gallons							
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~33'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~33'		PURGING INITIATED AT: 1116		PURGING ENDED AT: 1131	
TOTAL VOLUME PURGED (gallons): 3.00							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)
1127	2.20	2.20	.2	30.02	9.29	25.80	129
1129	.4	2.60	.2	30.03	9.28	25.81	139
1131	.4	3.00	.2	30.04	9.27	25.81	139
No sludge							
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; 6" = 1.02; 8" = 1.47; 12" = 5.88							
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016							

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.				SAMPLED BY SIGNATURES: 				SAMPLING INITIATED AT: 1132		SAMPLING ENDED AT: 1144	
PUMP OR TUBING DEPTH IN WELL (feet): ~33'				FLOW RATE (mL per minute): < 250 mL				MATERIAL CODE: PE			
FIELD DECONTAMINATION: (Y) N				FIELD FILTERED: Y N				FILTER SIZE: µm		DUPLICATE: Y (N)	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-4B	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA228RA228		ESP		
"	1	PE	250 mL	HN03	None	—	Total Ammonia		ESP		
"	1	PE	250 mL	HN03	None	—	Metals		ESP		
"	2+	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS		ESP		

REMARKS: **6 Various Various Various None — App 2 Arms ESP**

1116: Inserted SS ESP and dedicated 3/8" PE tubing to ~33' static and began purging @ .2 gpm.

1122: WL 30.05' @ .2 gpm, parameters are within range except for pH and DO, but both are typically high in this well. Will use optional stabilization criteria below.

1125: WL 30.02' @ .2 gpm, drawdown is stable. All 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 = 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 3H): ± 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)

DEP-SOP-001/01
Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL	
WELL NO: MW-6A		SAMPLE ID: MW-6A	
		DATE: 11/22/11	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL	STATIC DEPTH 33.42	PURGE PUMP TYPE							
DIAMETER (inches):	DIAMETER (inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
= (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: 1606	PURGING ENDED AT: 1631	TOTAL VOLUME PURGED (gallons): 19.75							
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)
1622	16.75	16.75	.75	33.54	7.79	24.65	255	6.77	10.1	Clear	None
1629	1.50	18.25	.75	33.54	7.79	24.44	255	6.73	10.8	Clear	None
1631	1.50	19.75	.75	33.54	7.80	24.44	205	6.72	7.11	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" = 0.66; 6" = 1.02; 8" = 1.47; 12" = 5.86											
TUBING INSIDE DIA. CAPACITY (Gal/ft): 1/8" = 0.0008; 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: H. L. Claytor, Colinas Group, Inc.				SAMPLER SIGNATURE:				SAMPLING INITIATED AT: 1632		SAMPLING ENDED AT: 1645	
PUMP OR TUBING DEPTH IN WELL (feet): 45'				SAMPLE PUMP				TUBING		MATERIAL CODE: PE	
FIELD DECONTAMINATION: <input checked="" type="radio"/> Y <input type="radio"/> N				FLOW RATE (gpm per minute): < 250 mL				FIELD-FILTERED: <input checked="" type="radio"/> Y <input type="radio"/> N		FILTER SIZE: <input type="text"/> µm	
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-6A	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA228RA232		ESP		
"	1	PE	250 mL	H2SO4	None	—	Total Ammonia		ESP		
"	1	PE	250 mL	HN03	None	—	Metals		ESP		
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS		ESP		
REMARKS: 6 Various Various Various None - Appx Parms ESP 1606: Inserted SS ESP and dedicated 3/8" PE tubing to 45' stop and began purging @ 1 gpm. This well typically requires over purging at a high flow rate to clear up turbidity. 1611: WL 33.58' @ 1 gpm, turbidity is @ 51 NTUs, continuing purge. 1616: DE @ Turbidity is at 28 NTUs, continuing purge. Reduced flow to .25 gpm. 1619: Turbidity is going up at lower flow rate? Increased flow rate to .75 gpm, is @ 58 NTUs. 1625: Turbidity is @ 16 NTUs. DO is high @ 6.96 mg/L, but is typical for this well. All notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes. Other parameters are in range. 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; RFPF = 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 3H): ± 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: 11/22/11	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL	STATIC DEPTH 24.13	PURGE PUMP TYPE							
DIAMETER (inches):	DIAMETER (inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
= (43.24' feet - 24.13' feet) X 0.02 gallons/foot = 0.40 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
= 0.02 gallons + (0.006 gallons/foot X 43' feet) + 0.125 gallons = 0.28 gallons											
TOTAL VOLUME PURGED (gallons): 0.68											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~38'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~38'	PURGING INITIATED AT: 0920	PURGING ENDED AT: 0935	TOTAL VOLUME PURGED (gallons): 0.68							
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)
0931	1.53	1.53	0.17	24.17'	7.34	24.25	348	3.49	4.84	Clear	None
0933	1.87	1.87	0.17	24.17'	7.34	24.30	348	3.54	3.15	Clear	None
0935	2.21	2.21	0.17	24.17'	7.34	24.30	348	3.48	2.38	Clear	None
WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.66; 6" = 1.02; 8" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal/ft): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Collins Group, Inc.		SAMPLER(S) SIGNATURES: <i>[Signature]</i>		SAMPLING INITIATED AT: 0936	SAMPLING ENDED AT: 0948
PUMP OR TUBING DEPTH IN WELL (feet): ~38'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: (Y) N		FILTER SIZE: 0.45 µm	
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			DUPLICATE: Y (N)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	FINAL pH
MW-8	2	PE	1 Ltr	HN03	None
"	1	PE	250 mL	H2SO4	None
"	1	PE	250 mL	HN03	None
"	2	PE	250 mL	None	None
REMARKS: 6 various various various None - Appx Pans ESP					INTENDED ANALYSIS AND/OR METHOD
					Gross Alpha, RA228RA228
					Total Ammonia
					Metals
					Chloride, Fluoride, Nitrate, TDS
					ESP

0922: Inserted SS ESP and dedicated 3/8" PE tubing to ~38' btlc and began purging @ 0.17 gpm.

0927: WL 24.17' @ 0.17 gpm, GW is clear. DO is high @ 3.94 mg/L, but is typical for this well. Will use optional stabilization criteria below.

0929: WL 24.17' @ 0.17 gpm, drawdown is stable. All parameters are either in range or 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 EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RPP = 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 3H): ± 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-9A		SAMPLE ID: MW-9A	
		DATE: 11/22/11	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL	STATIC DEPTH 31.32'	PURGE PUMP TYPE							
DIAMETER (inches):	DIAMETER (inches):	DEPTH: feet to feet	TO WATER (feet):	OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
= (50.17' feet - 31.32' feet) X gallons/foot = 18.85 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
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: 0804	PURGING ENDED AT: 0848	TOTAL VOLUME PURGED (gallons): 15.25							
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)
0804	14.75	14.75	1.25	36.55	6.53	25.02	912	1.60	2.42	Clear	None
0816	.5	15.25	1.25	36.47	6.53	25.06	916	1.64	2.64	Clear	None
0848	.5	15.75	1.25	36.49	6.53	25.06	913	1.62	3.00	Clear	None
No screen											
WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.02; 8" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.		SAMPLED BY SIGNATURES: 		SAMPLING INITIATED AT: 0849	SAMPLING ENDED AT: 0905		
PUMP OR TUBING DEPTH IN WELL (feet): ~45'		SAMPLE PUMP FLOW RATE (ml per minute):		MATERIAL CODE: PE			
FIELD DECONTAMINATION: Y N		FIELD-FILTERED: Y N FILTER SIZE: µm		DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	
MW-9A	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA228RA228
"	1	PE	250 mL	H2804	None	—	Total Ammonia
"	1	PE	250 mL	HN03	None	—	Metals
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS

REMARKS: 6 Various Various Various None - APP2 Pumps ESP

0804: Set dedicated 3/8" PE tubing and SS ESP @ ~45' Stoc and began purging @ .5 gpm. This well is typically extremely turbid at beginning of purge requiring over purging and a high rate of flow to clear it up.

0823: Reduced flow to .25 gpm, GW is clearing up nicely.

0842: WL 36.80' @ .25 gpm, WL is recovering. All parameters are within range and/or are stable. GW is clear.

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: 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 3H): ± 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: 11/22/11	

PURGING DATA

WELL 2" PVC	TUBING 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet): 24.30	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)											
= (45.35' feet - 24.30' feet) X 1.245 gallons/foot = 26.4 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 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: 1010	PURGING ENDED AT: 1038						
TOTAL VOLUME PURGED (gallons): 12											
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)
1032	10.5	10.5	.25	25.80	6.94	25.05	531	1.28	15.9	Clear	None
1034	.5	11	.25	25.78	6.94	25.04	531	1.20	12.5	Clear	None
1036	.5	11.5	.25	25.76	6.94	25.04	531	1.22	10.8	Clear	None
1038	.5	12	.25	25.73	6.94	25.07	530	1.64	9.16	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; 6" = 1.02; 8" = 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: H. L. Claytor, Collins Group, Inc.		SAMPLER/SYMBOL/ALIAS: [Signature]		SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: 1050			
PUMP OR TUBING DEPTH IN WELL (feet): ~40'		SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL		MATERIAL CODE: PE				
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: (Y) N		FILTER SIZE: µm				
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION		DUPLICATE: Y (N)				
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-10	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA228RA228	ESP
"	1	PE	250 mL	H2SO4	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	2	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

1010: Inserted SS ESP and dedicated 3/8" PE tubing to ~40' b/c and began purging @ .75 gpm. This well is typically extremely turbid at beginning of purge requiring over purging at a high flow rate to clear it up.

1020: Turbidity is @ 36 NTUs, reduced flow to .25 gpm and continuing purge.

1028: Turbidity has dropped to 18 NTUs. WL 25.82' @ .25 gpm and slowly recovering. All parameters are either in range or 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 EQUIPMENT CODES:	APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Sream Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-100, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3M): ± 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: 11/22/11	

PURGING DATA

WELL 2" PVC		TUBING 3/8"		WELL SCREEN INTERVAL		STATIC DEPTH 26.43'		PURGE PUMP TYPE OR BAILER: ESP			
DIAMETER (inches):		DIAMETER (inches):		DEPTH: feet to feet		TO WATER (feet):					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY											
= (40.15' feet - 26.43') X 0.006 gallons/foot = 0.08 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME											
= 0.02 gallons + (0.006 gallons/foot X 125 feet) = 0.77 gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'		FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'		PURGING INITIATED AT: 1342		PURGING ENDED AT: 1407		TOTAL VOLUME PURGED (gallons): 10.55			
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)
1302	6.25	6.25	0.25	26.56	6.57	26.12	557	1.17	23.1	Clear	None
1403	3.30	9.55	0.25	26.44	6.58	25.94	559	0.80	16.3	Clear	None
1405	.5	10.05	0.25	26.43	6.58	25.95	560	0.79	16.5	Clear	None
1407	.5	10.55	0.25	26.43	6.58	25.95	559	0.79	16.8	Clear	None
No Sheen											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.18; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0008; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.008; 1/2" = 0.010; 5/8" = 0.016											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: H. L. Claytor, Colinas Group, Inc.		SAMPLER(S) SIGNATURES: 		SAMPLING INITIATED AT: 1408		SAMPLING ENDED AT: 1418	
PUMP OR TUBING DEPTH IN WELL (feet): ~35'		SAMPLE PUMP		FLOW RATE (mL per minute): < 250 mL		MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N		FIELD-FILTERED: (Y) N		FILTER SIZE: — µm		DUPLICATE: Y (N)	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD
MW-11	2	PE	1 Ltr	HN03	None	—	Gross Alpha, RA226, RA228
"	1	PE	250 mL	H2804	None	—	Total Ammonia
"	1	PE	250 mL	HN03	None	—	Metals
"	1	PE	250 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS

REMARKS: **6 various various None App I Perms ESP**

1342: Inserted SS ESP and dedicated 3/8" PE tubing to ~35' btoe and began purging @ 1 gpm. This well is typically turbid at beginning of purge requiring our purging at a high rate of flow to clean it up.

1347: Turbidity is @ 20 NTUs, reduced flow to 0.25 gpm.

1351: WL 26.5' @ 0.25 gpm, turbidity has dropped to 16 NTUs. All parameters are within range. 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 EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; 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 3D): ± 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)

[illegible]

Field deployed SS ESP and WL Probe IAWDEP-SEP-001/01, KCI000. Inserted SS ESP and WL probe into DI Water, started pump, and circulated DI Water through pump and over WL probe for 2 minutes, then collected ESB samples.

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).



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Page 1

LAB 1

A1108863

6001 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354 • B25274
9610 Princess Palm Ave. • Tampa, FL 33619 • 813.830.0616 • Fax 813.830.0327 • B24590
6616 SW Archer Road • Gainesville, FL 32609 • 352.377.2349 • Fax 352.368.6639 • B20001
1328 S. North Lake Blvd., Ste. 101B • Altamonte Springs, FL 32701 • 407.307.1994 • Fax 407.307.1997 • E53076

CLIENT NAME: The Collins Group, Inc.		P.O. NUMBER/PROJECT NUMBER: P-453		PROJECT LOCATION: Sumter Co. Landfill - GW Sampling		ANALYSIS REQUIRED		BOTTLE SIZE & TYPE		LABORATORY I.D. NUMBER							
SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	TIME	MATRIX	NO. COUNT	PREP. VATION	Gross Alpha	Ra 226 + Ra 228	Sb, Al, Cd, Cr, Fe, Pb, Mn, Hg, Ag, Na, Tl, Ba, As, Be, Co, Cu, Ni, Se, V, Zn	TDS	Ammonia	F, Cl, NO3	8260 App I Voc	40 mL Vials	40 mL Vials	
MW-10		G	11/24/11	14050	W	12		X	X	X	X	X	X	X	X	X	01
MW-11		G	11/24/11	1418	W	12		X	X	X	X	X	X	X	X	X	02
MW-2		G	11/24/11	1515	W	12		X	X	X	X	X	X	X	X	X	03
MW-4		G	11/24/11	1245	W	12		X	X	X	X	X	X	X	X	X	04
MW-4A		G	11/24/11	1330	W	12		X	X	X	X	X	X	X	X	X	05
MW-4B		G	11/24/11	1144	W	12		X	X	X	X	X	X	X	X	X	06
MW-6A		G	11/24/11	1445	W	12		X	X	X	X	X	X	X	X	X	07
MW-8		G	11/24/11	0948	W	12		X	X	X	X	X	X	X	X	X	08
MW-9A		G	11/24/11	0905	W	12		X	X	X	X	X	X	X	X	X	09
Equip Blank		G	11/24/11	0250	W	12		X	X	X	X	X	X	X	X	X	10
Trip Blank-1, 2, 3, 4		-	-	-	W	3		X	X	X	X	X	X	X	X	X	11

Mark Code: MW = wastewater SW = surface water GW = ground water GW = drinking water G = gr A = gr SO = soil SL = sludge
 Received on 10/1/11 ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from tank ☐ When required, pH checked
 Form revised 26/08

Device used for measuring Temp by unique identifier (circle R for temp gun used) J: 9A G: LT-1 LT-2 T: 10A (A: 3A)
 Temperature when received 7 (in degrees Celsius)

FOR DRINKING WATER USE:
 (When PWS information not otherwise supplied) PWS ID: _____
 Contact Person: _____ Phone: _____
 Supplier of Water: _____
 Site Address: _____

Received by: Brandon Allen Date: 11/24/11
11/24/11 1052
 1 Brandon Allen
 2
 3
 4

Chain of Custody

Document 207630 - HBN 69190 Workorder Sumter Co Landfill - GW Results Requested By 12/4/2011

Myma Santiago
Advanced Environmental Laboratories, Inc.
6801 Southpoint Parkway
Jacksonville, FL 32216
Phone (904)363-9350
Fax (904)363-9354

FLRAD-Orlando-FL
Florida Radiochemistry
5456 Hoffner Rd.
Suite 201
Orlando, FL 32812-2517
Phone
Fax

HBN 69190											
EPA 800											
EPA 800											
LAB USE ONLY											
12											
14											

☐ Standard (Results only)
☐ Standard with Batch QC
☐ CLP
☐ Other _____

☐ SEDD Stage 2A
☐ SEDD Stage 2B
☐ SEDD Stage 3
☐ Other _____

Transfers	Released By	Date/Time	Received By	Date/Time
1	C. Ferguson	11/25/11	Blue Streak	11/28/11
2			Pudenda	11/29/11 8:30
3				
4				
5				

Preservative
HNC3 - HNC3



ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863010**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **EQ BLANK**

Date Collected: 11/22/11 07:50

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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	11/30/2011 16:23	J
Barium	0.28	ug/L	U	1	2.0	0.28	11/30/2011 16:23	J
Beryllium	0.13	ug/L	U	1	0.30	0.13	11/30/2011 16:23	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	11/30/2011 16:23	J
Chromium	0.50	ug/L	U	1	4.0	0.50	11/30/2011 16:23	J
Cobalt	0.60	ug/L	U	1	4.0	0.60	11/30/2011 16:23	J
Iron	38	ug/L	U	1	200	38	11/30/2011 16:23	J
Manganese	0.42	ug/L	I	1	1.0	0.24	11/30/2011 16:23	J
Nickel	1.1	ug/L	U	1	6.5	1.1	11/30/2011 16:23	J
Sodium	0.035	mg/L	I	1	0.20	0.026	11/30/2011 16:23	J
Vanadium	0.18	ug/L	U	1	1.5	0.18	11/30/2011 16:23	J
Zinc	2.0	ug/L	U	1	10	2.0	11/30/2011 16:23	J
Analysis Desc: SW846 6020B			Preparation Method: SW-846 3010A					
Analysis, Total			Analytical Method: SW-846 6020					
Antimony	0.073	ug/L	U	1	0.60	0.073	12/13/2011 21:52	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	12/13/2011 21:52	J
Copper	0.25	ug/L	I	1	0.70	0.10	12/13/2011 21:52	J
Lead	0.076	ug/L	U	1	0.70	0.076	12/13/2011 21:52	J
Selenium	2.2	ug/L	U	1	5.0	2.2	12/13/2011 21:52	J
Silver	0.059	ug/L	U	1	0.30	0.059	12/13/2011 21:52	J
Thallium	0.067	ug/L	U	1	0.20	0.067	12/13/2011 21:52	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	11/29/2011 13:56	J
SEMIVOLATILES								
Analysis Desc: SW 8011 Analysis, Water			Preparation Method: SW-846 8011					
			Analytical Method: SW-846 8011					
1,2-Dibromo-3-Chloropropane	0.0058	ug/L	U	1	0.019	0.0058	11/30/2011 02:48	J
Ethylene Dibromide (EDB)	0.0060	ug/L	U	1	0.019	0.0060	11/30/2011 02:48	J
Tetrachloro-m-xylene (S)	87	%		1	40.3-190		11/30/2011 02:48	

VOLATILES

Report ID: 190195 - 4179738

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ANALYTICAL RESULTS

Workorder: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863010**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **EQ BLANK**

Date Collected: 11/22/11 07:50

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	11/28/2011 18:23	J
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 18:23	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/28/2011 18:23	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 18:23	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/28/2011 18:23	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 18:23	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/28/2011 18:23	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/28/2011 18:23	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 18:23	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 18:23	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 18:23	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/28/2011 18:23	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/28/2011 18:23	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/28/2011 18:23	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/28/2011 18:23	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/28/2011 18:23	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/28/2011 18:23	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 18:23	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/28/2011 18:23	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 18:23	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/28/2011 18:23	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 18:23	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/28/2011 18:23	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/28/2011 18:23	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/28/2011 18:23	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/28/2011 18:23	J
Chloroform	2.0	ug/L		1	1.0	0.26	11/28/2011 18:23	J
Chloromethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 18:23	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 18:23	J
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/28/2011 18:23	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/28/2011 18:23	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/28/2011 18:23	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/28/2011 18:23	J
Methylene Chloride	0.32	ug/L	U	1	5.0	0.32	11/28/2011 18:23	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 18:23	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/28/2011 18:23	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 18:23	J

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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: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863010**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **EQ BLANK**

Date Collected: 11/22/11 07:50

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	11/28/2011 18:23	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/28/2011 18:23	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/28/2011 18:23	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/28/2011 18:23	J
Xylene (Total)	0.62	ug/L	U	1	3.0	0.62	11/28/2011 18:23	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 18:23	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 18:23	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/28/2011 18:23	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/28/2011 18:23	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/28/2011 18:23	J
1,2-Dichloroethane-d4 (S)	104	%		1	80-120		11/28/2011 18:23	
Toluene-d8 (S)	106	%		1	88-110		11/28/2011 18:23	
Bromofluorobenzene (S)	107	%		1	86-115		11/28/2011 18:23	

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Chloride	0.87	mg/L	U	1	10	0.87	11/23/2011 15:54	A
Fluoride	0.078	mg/L	U	1	0.20	0.078	11/23/2011 15:54	A
Nitrate	0.094	mg/L	U	1	0.20	0.094	11/23/2011 15:54	A

Analysis Desc: Ammonia,E350.1,Water

Analytical Method: EPA 350.1

Ammonia (N)	0.025	mg/L	U	1	0.10	0.025	11/30/2011 15:50	T
-------------	-------	------	---	---	------	-------	------------------	---

Analysis Desc: Tot Dissolved
Solids,SM2540C

Analytical Method: SM 2540C

Total Dissolved Solids	10	mg/L	U	1	10	10	11/28/2011 15:21	T
------------------------	----	------	---	---	----	----	------------------	---

Lab ID: **A1108863011**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **TRIP BLANK**

Date Collected: 11/22/11 00:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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	11/28/2011 17:38	J

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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: A1108863 Sumter Co Landfill - GW

Lab ID: **A1108863011**

Date Received: 11/23/11 10:52 Matrix: Water

Sample ID: **TRIP BLANK**

Date Collected: 11/22/11 00:00

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,1,1-Trichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 17:38	J
1,1,2,2-Tetrachloroethane	0.48	ug/L	U	1	1.0	0.48	11/28/2011 17:38	J
1,1,2-Trichloroethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 17:38	J
1,1-Dichloroethane	0.21	ug/L	U	1	1.0	0.21	11/28/2011 17:38	J
1,1-Dichloroethylene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 17:38	J
1,2,3-Trichloropropane	0.32	ug/L	U	1	1.0	0.32	11/28/2011 17:38	J
1,2-Dibromo-3-Chloropropane	3.2	ug/L	U	1	5.0	3.2	11/28/2011 17:38	J
1,2-Dichlorobenzene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 17:38	J
1,2-Dichloroethane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 17:38	J
1,2-Dichloropropane	0.29	ug/L	U	1	1.0	0.29	11/28/2011 17:38	J
1,4-Dichlorobenzene	0.37	ug/L	U	1	1.0	0.37	11/28/2011 17:38	J
2-Butanone (MEK)	0.97	ug/L	U	1	5.0	0.97	11/28/2011 17:38	J
2-Hexanone	0.44	ug/L	U	1	5.0	0.44	11/28/2011 17:38	J
4-Methyl-2-pentanone (MIBK)	0.51	ug/L	U	1	5.0	0.51	11/28/2011 17:38	J
Acetone	3.3	ug/L	U	1	5.0	3.3	11/28/2011 17:38	J
Acrylonitrile	1.6	ug/L	U	1	5.0	1.6	11/28/2011 17:38	J
Benzene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 17:38	J
Bromochloromethane	0.37	ug/L	U	1	1.0	0.37	11/28/2011 17:38	J
Bromodichloromethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 17:38	J
Bromoform	0.62	ug/L	U	1	5.0	0.62	11/28/2011 17:38	J
Bromomethane	0.26	ug/L	U	1	1.0	0.26	11/28/2011 17:38	J
Carbon Disulfide	0.34	ug/L	U	1	1.0	0.34	11/28/2011 17:38	J
Carbon Tetrachloride	0.24	ug/L	U	1	1.0	0.24	11/28/2011 17:38	J
Chlorobenzene	0.23	ug/L	U	1	1.0	0.23	11/28/2011 17:38	J
Chloroethane	0.58	ug/L	U	1	1.0	0.58	11/28/2011 17:38	J
Chloroform	0.26	ug/L	U	1	1.0	0.26	11/28/2011 17:38	J
Chloromethane	0.34	ug/L	I	1	1.0	0.29	11/28/2011 17:38	J
Dibromochloromethane	0.33	ug/L	U	1	1.0	0.33	11/28/2011 17:38	J
Dibromomethane	0.38	ug/L	U	1	1.0	0.38	11/28/2011 17:38	J
Ethylbenzene	0.24	ug/L	U	1	1.0	0.24	11/28/2011 17:38	J
Ethylene Dibromide (EDB)	0.39	ug/L	U	1	1.0	0.39	11/28/2011 17:38	J
Iodomethane (Methyl Iodide)	0.20	ug/L	U	1	5.0	0.20	11/28/2011 17:38	J
Methylene Chloride	0.50	ug/L	I	1	5.0	0.32	11/28/2011 17:38	J
Styrene	0.21	ug/L	U	1	1.0	0.21	11/28/2011 17:38	J
Tetrachloroethylene (PCE)	0.59	ug/L	U	1	1.0	0.59	11/28/2011 17:38	J
Toluene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 17:38	J
Trichloroethene	0.36	ug/L	U	1	1.0	0.36	11/28/2011 17:38	J
Trichlorofluoromethane	0.35	ug/L	U	1	1.0	0.35	11/28/2011 17:38	J
Vinyl Acetate	0.35	ug/L	U	1	1.0	0.35	11/28/2011 17:38	J
Vinyl Chloride	0.37	ug/L	U	1	1.0	0.37	11/28/2011 17:38	J

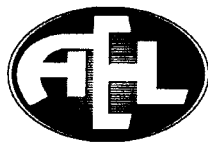
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Advanced Environmental Laboratories, Inc
528 S. North Lake Blvd, Suite 1016
Altamonte Springs, FL 32701
Phone: (407)937-1594
Fax: (407)937-1597

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Sample ID: **TRIP BLANK**

Date Collected: 11/22/11 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	11/28/2011 17:38	J
cis-1,2-Dichloroethylene	0.28	ug/L	U	1	1.0	0.28	11/28/2011 17:38	J
cis-1,3-Dichloropropene	0.29	ug/L	U	1	1.0	0.29	11/28/2011 17:38	J
trans-1,2-Dichloroethylene	0.40	ug/L	U	1	1.0	0.40	11/28/2011 17:38	J
trans-1,3-Dichloropropylene	0.19	ug/L	U	1	5.0	0.19	11/28/2011 17:38	J
trans-1,4-Dichloro-2-butene	1.8	ug/L	U	1	5.0	1.8	11/28/2011 17:38	J
1,2-Dichloroethane-d4 (S)	101	%		1	80-120		11/28/2011 17:38	
Toluene-d8 (S)	105	%		1	88-110		11/28/2011 17:38	
Bromofluorobenzene (S)	109	%		1	86-115		11/28/2011 17:38	

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