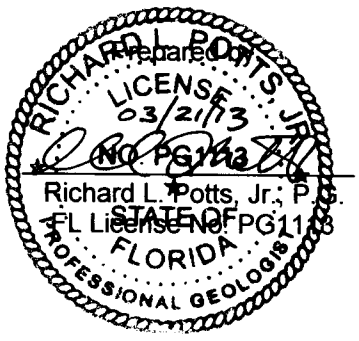
SUMTER COUNTY
(CLOSED) LANDFILL
QUARTERLY GROUNDWATER
MONITORING REPORT
Quarter I (February) 2013

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



Prepared by:
Richard L. Potts, Jr., P.G.
FL License No. PG1118

March 2013

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.

3/21/13
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

March 20, 2013

Mr. F. Thomas Lubozynski, P.E.
Florida Department of Environmental Protection
Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Subj: **Quarter I (February) 2013 Groundwater Monitoring Report**
Sumter County Closed Class I Landfill
Sumter County, Florida
FDEP Permit No. 22926-003-SF

Dear Mr. Lubozynski:

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 I (February) 2013

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

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

Very truly yours,
THE COLINAS GROUP, INC.

RICHARD L. POTTS, JR. LICENSE NO. PG1113 STATE OF FLORIDA 3/21/13

Richard L. Potts, Jr., P.G.
Principal Consultant
Fl. P.G. Reg. No. 1113

cc: Mr. Jackey Jackson (Sumter County)
Ms. Denise Warnock (Sumter County)
Mr. John Morris, P.G. (FDEP SW District)

377 MAITLAND AVENUE, SUITE 2012, ALTAMONTE SPRINGS, FL 32701 • (407) 622-8176 • FAX: (407) 622-8196

SUMTER COUNTY (CLOSED) LANDFILL
GROUNDWATER MONITORING REPORT
SUMTER COUNTY, FLORIDA
Quarter I (February) 2013

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Sumter County (Closed) Landfill
Quarterly Groundwater Monitoring Report
Quarter I (February) 2013

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter I (February) 2013 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's FDEP Long-Term Care Permit #22926-003-SF.

SAMPLING EVENT

The Quarter I 2013 sampling event at the Sumter County Landfill was completed during the period February 11 - 13, 2013. 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 February 11, 2013. These measurements were used to construct 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 I 2013 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 six (6) of the nine (9) groundwater monitoring wells sampled. 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 8.93 pH units. This well has produced pH values above 8.5 since sampling of the well began in Quarter II of 2006. Wells **MW-9A** and **MW-11** reported pH slightly below the lower-range of 6.5 pH units. Groundwater ph at remaining wells ranged from 6.88 to 7.73 su.

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 monitoring wells varied through a relatively narrow range of 24.01 C to 26.76 C.

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**.

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 119 umhos/cm to 927 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.

Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the Quarter I 2013 sample set is presented in Table III. As shown, five (5) constituents were reported at specific monitoring wells at concentrations that exceed applicable regulatory levels. Exceeding parameters were: Aluminum, iron, manganese, nitrate nitrogen and total dissolved solids (TDS).

Aluminum

Aluminum was reported in water samples from two (2) of the nine (9) monitoring wells (22%) at concentrations slightly above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l. The highest aluminum concentration was reported for new well **MW-4B** at 260 ug/l. Aluminum was nominally above the MCL at well **MW-9A** at 210 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 1,700 ug/l at well **MW-9A** and 430 ug/l at **MW-10**. Iron was detected below 300 ug/l at one (1) monitoring well and was not detected above the laboratory method detection limit of 38 ug/l at six (6) wells.

Manganese

Manganese was measured at a concentration above the FSDWS MCL of 50 ug/l in monitoring well **MW-9A** at 96 ug/l. Manganese was detected at five (5) of the remaining monitoring wells at concentrations less than 50 ug/l.

Nitrate Nitrogen

Nitrate was reported above the FPDWS MCL (10 mg/l) at monitoring well **MW-4A** at 13 mg/l. Remaining detection/compliance wells reported nitrate values ranging from 0.34 mg/l (**MW-9A**) to 5.2 mg/l (**MW-4**). Background Well **MW-6A** reported an elevated nitrate concentration of 5.4 mg/l.

Total Dissolved Solids (TDS)

TDS concentration was reported nominally above the 500 mg/l FSDWS MCL at monitoring well **MW-9A** at 520 mg/l.

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

Antimony was reported at low concentrations at each of the landfill monitoring wells, including background / upgradient wells **MW-6A** and **MW-8**. Laboratory results for antimony analyses are flagged for evidence of internal laboratory contamination, indicating that the actual analyte concentration is less than reported.

Chloride concentrations reported for eight (8) of the eleven (11) 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 monitoring wells **MW-4**, **MW-4A** and **MW-9A** (13 mg/l - 22 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** (21 mg/l - 32 mg/l) as compared to background and other downgradient monitoring wells. The PDWS MCL for sodium is 160 mg/l. Laboratory results for sodium analyses are flagged for evidence of internal laboratory contamination.

SAMPLING EVENT SUMMARY

Chemical characteristics of groundwater monitored at the Sumter County Closed Landfill are reported for the Quarter I (February) 2013 sampling event. Exceedances of constituent regulatory maximum concentration levels (MCLs) are reported at specific monitoring wells for the Florida Secondary Drinking Water Standards (FSDWS) parameters: **Aluminum, iron, manganese and total dissolved solids (TDS)**. One well reported an exceedance of the Florida Primary Drinking Water Standards MCL for **nitrate nitrogen** in groundwater,

Elevated **dissolved oxygen** (DO) levels were measured in four of the eleven groundwater monitoring wells, including background monitoring well **MW-6A** and up-gradient well **MW-8**. These wells routinely produce groundwater with elevated DO levels. An elevated (alkaline) groundwater **pH** continues to be reported at well **MW-4B**.

Aluminum was reported by the laboratory at concentrations slightly above the FSDWS MCL at two monitoring wells. The highest aluminum value is reported well **MW-4B**. Aluminum has routinely been reported above the MCL in monitoring wells at the 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.

Dissolved **iron** above the FSDWS MCL was reported at detection monitoring wells **MW-9A** and **MW-10**. **Manganese** was also reported above the FSDWS MCL at **MW-9A**. Both iron and manganese occur naturally in sediments and carbonate rocks penetrated by the monitoring wells.

Nitrate nitrogen was reported slightly above the(FPDWS) MCL at monitoring well **MW-4A** at 13 mg/l. The MCL for nitrate in groundwater is 10 mg/l. Well **MW-4A** was installed as part of prior Contamination Assessment actions to delineate the lateral extent of exceeding nitrate levels beyond the landfill's zone of discharge boundary near the location of Compliance Well **MW-4**. Well **MW-4** continues to report nitrate below the MCL and consistent with background levels. Consistently elevated sub-MCL nitrate levels continue at Background Well **MW-6A**.

TDS was reported slightly above the FSDWS provisional MCL (500 mg/l) at well **MW-9A** at 520 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.

* * * * *

TABLE I
FIELD PARAMETER RESULTS SUMMARY
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter I (February) 2013

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	26.76	**6.42**	7.03	259	3.33
MW-4	26.23	1.21	7.24	526	0.29
MW-4A	26.31	0.49	6.93	624	2.32
MW-4B	25.62	**6.00**	**8.93**	119	4.70
MW-6A	24.70	**7.32**	7.73	255	10.6
MW-8	24.01	**4.55**	7.28	342	0.24
MW-9A	25.49	0.41	**6.48**	927	13.0
MW-10	25.04	0.62	6.88	642	6.55
MW-11	25.00	1.15	**6.22**	334	5.42

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

TABLE II

SUMMARY OF GROUNDWATER LEVELS
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter I (February) 2013

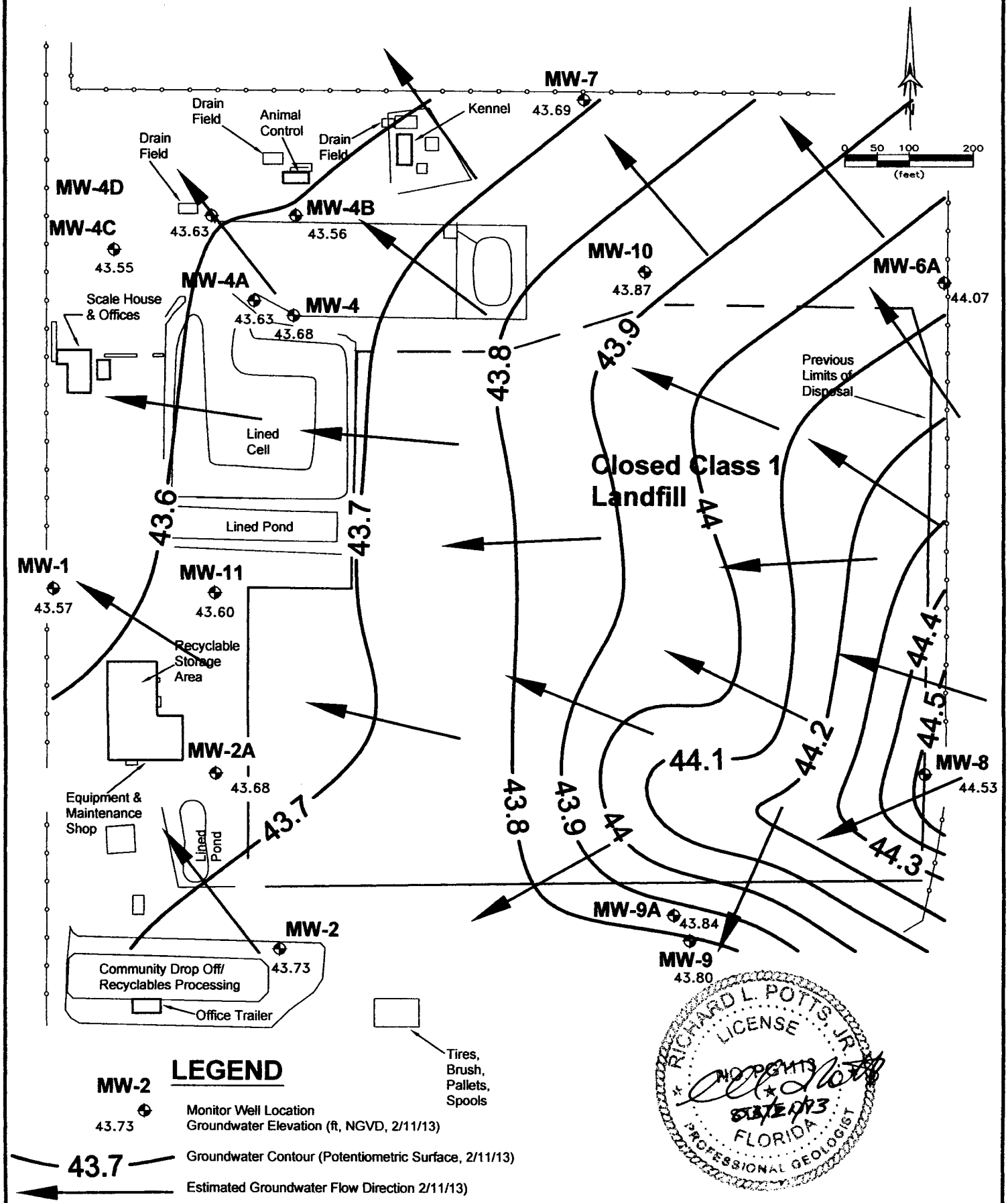
Well No.	MP Elev. 1/ (ft. +NGVD)	Depth to Water 2/ (ft. - MP)	Groundwater Elevation (ft. +NGVD)
MW-1	70.10	26.53	43.57
MW-2	68.96	25.23	43.73
MW-2A	71.98	28.30	43.68
MW-4	70.33	26.65	43.68
MW-4A	75.49	31.86	43.63
MW-4B	73.49	29.93	43.56
MW-4C	70.88	27.33	43.55
MW-4D	73.35	29.72	43.63
MW-6A	77.48	33.41	44.07
MW-7	72.93	29.24	43.69
MW-8	68.63	24.10	44.53
MW-9	72.62	28.82	43.80
MW-9A	75.14	31.30	43.84
MW-10	68.14	24.27	43.87
MW-11	70.02	26.42	43.60

Notes: 1/ Measuring Point is top of PVC well casing.
2/ Water levels recorded on February 11, 2013

TABLE III
SUMMARY OF LABORATORY RESULTS
SUMTER COUNTY (CLOSED) LANDFILL
QUARTER I (February) 2013

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	MCL
Ammonia	mg/l	0.083	0.084	0.066	0.072	0.081	0.067	0.636	0.115	0.089	**2.8**
Aluminum	ug/l	BDL	BDL	BDL	**260**	BDL	BDL	**210**	170	BDL	**200**
Antimony	ug/l	2.3 V	1.9 V	1.6 V	1.6 V	1.5 V	1.5 V	1.5 V	2.6 V	4.1 V	**6**
Cadmium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.81	0.53	1.9	**5**
Chloride	mg/l	4.4	13	23	4.1	8.2	8.5	23	7.1	4.2	**250**
Chromium	ug/l	0.63	1.1	1.2	2.5	3.3	3.1	5.9	0.74	1.5	**100**
Fluoride	mg/l	BDL	0.16	BDL	0.13	BDL	0.16	0.19	0.17	0.19	**4**
Gross Alpha	pCi/l	1.2 ± 0.7	5.9 ±1.5	3.1 ±1.3	< 0.9 ± 0.7	< 0.9 ± 0.6	< 1.1 ± 0.8	12.8 ± 2.1	14.3 ± 2.3	6.1 ± 1.4	**15**
Iron	ug/l	BDL	57	BDL	BDL	BDL	BDL	**1,700**	**430**	BDL	**300**
Lead	ug/l	0.13	0.12	0.11	0.19	0.12	0.085	0.41	0.47	0.31	**15**
Manganese	ug/l	1.4	5.8	1.8	BDL	BDL	BDL	**96**	22	2.1	**50**
Mercury	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.071	BDL	0.032	**2**
Nitrate, as N	mg/l	1.5	5.2	**13**	2.0	5.4	1.9	0.34	1.2	4.8	**10**
Ra226+Ra228	pCi/l	< 1.7 ± 0.8	2.8 ± 0.8	3.2 ± 0.9	2.1 ± 0.8	<1.7 ± 0.8	<1.6 ± 0.9	4.6 ± 0.9	3.6 ± 0.8	4.6 ± 1.0	**5**
Silver	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**100**
Sodium	mg/l	3.0 V	32 V	23 V	8.5 V	3.1 V	5.2 V	21 V	8.1 V	8.6 V	**160**
TDS	mg/l	130	270	340	70	140	190	520	370	190	**500**
Thallium	ug/l	0.16	0.19	0.30	0.10	0.14	0.12	0.28	0.27	0.26	**2**

Notes: 1). BDL means below laboratory method detection limit 2). **Bold lettering** indicates result exceeds MCL / 62-777,F.A.C. GCTL 3). V indicates laboratory contamination



The Colinas Group, Inc. 377 Maitland Avenue Suite 2012 Altamonte Springs, Florida 32701	PROJ. NO.: P-468 DATE: MARCH 2013 SCALE: 1" = 200'	GROUNDWATER CONTOUR MAP QUARTER I (FEBRUARY) 2013 SUMTER COUNTY LANDFILL	FIGURE 1

Advanced
Environmental Laboratories, Inc.

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

ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338001** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-10** Date Collected: 02/12/13 10:47

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**642**	**umhos/cm**		1			2/12/2013 10:36	A^
Dissolved Oxygen	**0.62**	**mg/L**		1			2/12/2013 10:36	A^
Groundwater Elevation	**43.99**	**feet**		1			2/12/2013 10:36	A^
Temperature	**25.04**	**°C**		1			2/12/2013 10:36	A^
Turbidity	**6.55**	**NTU**		1			2/12/2013 10:36	A^
pH	**6.88**	**pH unit**		1			2/12/2013 10:36	A^
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Aluminum	**170**	**ug/L**	I	1	200	61	2/20/2013 18:17	J
Barium	**14**	**ug/L**		1	2.0	0.28	2/20/2013 18:17	J
Beryllium	**0.13**	**ug/L**	U	1	0.30	0.13	2/20/2013 18:17	J
Cadmium	**0.53**	**ug/L**	I	1	0.60	0.32	2/20/2013 18:17	J
Chromium	**0.74**	**ug/L**	I	1	4.0	0.50	2/20/2013 18:17	J
Cobalt	**0.60**	**ug/L**	U	1	4.0	0.60	2/20/2013 18:17	J
Iron	**430**	**ug/L**		1	200	38	2/22/2013 18:22	J
Manganese	**22**	**ug/L**		1	1.0	0.24	2/20/2013 18:17	J
Nickel	**1.1**	**ug/L**	U	1	6.5	1.1	2/20/2013 18:17	J
Sodium	**8.1**	**mg/L**	V	1	0.20	0.026	2/20/2013 18:17	J
Vanadium	**11**	**ug/L**		1	1.5	0.18	2/20/2013 18:17	J
Zinc	**12**	**ug/L**		1	10	2.0	2/20/2013 18:17	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**2.6**	**ug/L**	V	1	0.60	0.073	2/26/2013 01:34	J
Arsenic	**0.36**	**ug/L**	U	1	1.0	0.36	2/26/2013 01:34	J
Copper	**0.10**	**ug/L**	U	1	7.0	0.10	2/26/2013 01:34	J
Lead	**0.47**	**ug/L**	I	1	0.70	0.076	2/26/2013 01:34	J
Selenium	**2.2**	**ug/L**	U	1	5.0	2.2	2/26/2013 01:34	J
Silver	**0.059**	**ug/L**	U	1	0.30	0.059	2/26/2013 01:34	J
Thallium	**0.27**	**ug/L**		1	0.20	0.067	2/26/2013 01:34	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	2/22/2013 11:18	J

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

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

ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338001** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-10** Date Collected: 02/12/13 10:47

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	**Analytical Method: EPA 300.0**							
Chloride	**7.1**	**mg/L**	**I**	**1**	7.5	0.78	2/13/2013 18:23	A
Fluoride	**0.17**	**mg/L**	**I**	**1**	0.50	0.075	2/13/2013 18:23	A
Nitrate	**1.2**	**mg/L**		**1**	0.50	0.051	2/13/2013 18:23	A
Analysis Desc: Ammonia,E350.1,Water	**Analytical Method: EPA 350.1**							
Ammonia (N)	**0.115**	**mg/L**		**1**	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	**Analytical Method: SM 2540C**							
Total Dissolved Solids	**370**	**mg/L**		**1**	10	10	2/15/2013 15:30	A

Lab ID: **A1301338002** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-11** Date Collected: 02/12/13 09:40

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	**Analytical Method: DISRES**							
Conductance	**334**	**umhos/cm**		**1**			2/12/2013 09:17	A^
Dissolved Oxygen	**1.15**	**mg/L**		**1**			2/12/2013 09:17	A^
Groundwater Elevation	**43.76**	**feet**		**1**			2/12/2013 09:17	A^
Temperature	**25**	**°C**		**1**			2/12/2013 09:17	A^
Turbidity	**5.42**	**NTU**		**1**			2/12/2013 09:17	A^
pH	**6.22**	**pH unit**		**1**			2/12/2013 09:17	A^
METALS								
Analysis Desc: SW846 6010B Analysis,Water	**Preparation Method: SW-846 3010A**							
	Analytical Method: SW-846 6010							
Aluminum	**67**	**ug/L**	**I**	**1**	200	61	2/20/2013 18:41	J
Barium	**5.0**	**ug/L**		**1**	2.0	0.28	2/20/2013 18:41	J
Beryllium	**0.13**	**ug/L**	**U**	**1**	0.30	0.13	2/20/2013 18:41	J
Cadmium	**1.9**	**ug/L**		**1**	0.60	0.32	2/20/2013 18:41	J
Chromium	**1.5**	**ug/L**	**I**	**1**	4.0	0.50	2/20/2013 18:41	J

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

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

ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338002** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-11** Date Collected: 02/12/13 09:40

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**0.60**	**ug/L**	**U**	**1**	4.0	0.60	2/20/2013 18:41	J
Iron	**38**	**ug/L**	**U**	**1**	200	38	2/22/2013 18:36	J
Manganese	**2.1**	**ug/L**		**1**	1.0	0.24	2/20/2013 18:41	J
Nickel	**1.1**	**ug/L**	**U**	**1**	6.5	1.1	2/20/2013 18:41	J
Sodium	**8.6**	**mg/L**	**V**	**1**	0.20	0.026	2/20/2013 18:41	J
Vanadium	**8.2**	**ug/L**		**1**	1.5	0.18	2/20/2013 18:41	J
Zinc	**12**	**ug/L**		**1**	10	2.0	2/20/2013 18:41	J
Analysis Desc: SW846 6020B Analysis,Total		**Preparation Method: SW-846 3010A**						
		Analytical Method: SW-846 6020						
Antimony	**4.1**	**ug/L**	**V**	**1**	0.60	0.073	2/26/2013 20:34	J
Arsenic	**0.36**	**ug/L**	**U**	**1**	1.0	0.36	2/26/2013 20:34	J
Copper	**1.2**	**ug/L**	**I**	**1**	7.0	0.10	2/26/2013 20:34	J
Lead	**0.31**	**ug/L**	**I**	**1**	0.70	0.076	2/26/2013 20:34	J
Selenium	**2.2**	**ug/L**	**U**	**1**	5.0	2.2	2/26/2013 20:34	J
Silver	**0.059**	**ug/L**	**U**	**1**	0.30	0.059	2/26/2013 20:34	J
Thallium	**0.26**	**ug/L**		**1**	0.20	0.067	2/26/2013 20:34	J
Analysis Desc: SW846 7470A Analysis,Water		**Preparation Method: SW-846 7470A**						
		Analytical Method: SW-846 7470A						
Mercury	**0.032**	**ug/L**	**I**	**1**	0.10	0.014	2/22/2013 11:37	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water		**Analytical Method: EPA 300.0**						
Chloride	**4.2**	**mg/L**	**I**	**1**	7.5	0.78	2/13/2013 18:48	A
Fluoride	**0.19**	**mg/L**	**I**	**1**	0.50	0.075	2/13/2013 18:48	A
Nitrate	**4.8**	**mg/L**		**1**	0.50	0.051	2/13/2013 18:48	A
Analysis Desc: Ammonia,E350.1,Water		**Analytical Method: EPA 350.1**						
Ammonia (N)	**0.089**	**mg/L**	**I**	**1**	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C		**Analytical Method: SM 2540C**						
Total Dissolved Solids	**190**	**mg/L**		**1**	10	10	2/15/2013 15:30	A

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338003** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-2** Date Collected: 02/12/13 11:35

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**259**	**umhos/cm**		1			2/12/2013 11:18	A^
Dissolved Oxygen	**6.42**	**mg/L**		1			2/12/2013 11:18	A^
Groundwater Elevation	**43.88**	**feet**		1			2/12/2013 11:18	A^
Temperature	**26.76**	**°C**		1			2/12/2013 11:18	A^
Turbidity	**3.33**	**NTU**		1			2/12/2013 11:18	A^
pH	**7.03**	**pH unit**		1			2/12/2013 11:18	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	2/20/2013 18:47	J
Barium	**13**	**ug/L**		1	2.0	0.28	2/20/2013 18:47	J
Beryllium	**0.13**	**ug/L**	U	1	0.30	0.13	2/20/2013 18:47	J
Cadmium	**0.32**	**ug/L**	U	1	0.60	0.32	2/20/2013 18:47	J
Chromium	**0.63**	**ug/L**	I	1	4.0	0.50	2/20/2013 18:47	J
Cobalt	**0.60**	**ug/L**	U	1	4.0	0.60	2/20/2013 18:47	J
Iron	**38**	**ug/L**	U	1	200	38	2/22/2013 18:41	J
Manganese	**1.4**	**ug/L**		1	1.0	0.24	2/20/2013 18:47	J
Nickel	**1.1**	**ug/L**	U	1	6.5	1.1	2/20/2013 18:47	J
Sodium	**3.0**	**mg/L**	V	1	0.20	0.026	2/20/2013 18:47	J
Vanadium	**1.1**	**ug/L**	I	1	1.5	0.18	2/20/2013 18:47	J
Zinc	**11**	**ug/L**		1	10	2.0	2/20/2013 18:47	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**2.3**	**ug/L**	V	1	0.60	0.073	2/26/2013 20:43	J
Arsenic	**0.36**	**ug/L**	U	1	1.0	0.36	2/26/2013 20:43	J
Copper	**0.48**	**ug/L**	I	1	7.0	0.10	2/26/2013 20:43	J
Lead	**0.13**	**ug/L**	I	1	0.70	0.076	2/26/2013 20:43	J
Selenium	**2.2**	**ug/L**	U	1	5.0	2.2	2/26/2013 20:43	J
Silver	**0.059**	**ug/L**	U	1	0.30	0.059	2/26/2013 20:43	J
Thallium	**0.16**	**ug/L**	I	1	0.20	0.067	2/26/2013 20:43	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	2/22/2013 11:39	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338003** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-2** Date Collected: 02/12/13 11:35

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**4.4**	**mg/L**	**I**	**1**	7.5	0.78	2/13/2013 19:14	A
Fluoride	**0.075**	**mg/L**	**U**	**1**	0.50	0.075	2/13/2013 19:14	A
Nitrate	**1.5**	**mg/L**		**1**	0.50	0.051	2/13/2013 19:14	A
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.083**	**mg/L**	**I**	**1**	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540C							
Total Dissolved Solids	**130**	**mg/L**		**1**	10	10	2/15/2013 15:30	A

Lab ID: **A1301338004** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-4** Date Collected: 02/12/13 13:00

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**526**	**umhos/cm**		**1**			2/12/2013 12:39	A^
Dissolved Oxygen	**1.21**	**mg/L**		**1**			2/12/2013 12:39	A^
Groundwater Elevation	**43.68**	**feet**		**1**			2/12/2013 12:39	A^
Temperature	**26.23**	**°C**		**1**			2/12/2013 12:39	A^
Turbidity	**0.29**	**NTU**		**1**			2/12/2013 12:39	A^
pH	**7.24**	**pH unit**		**1**			2/12/2013 12:39	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	2/20/2013 18:52	J
Barium	**7.2**	**ug/L**		**1**	2.0	0.28	2/20/2013 18:52	J
Beryllium	**0.13**	**ug/L**	**U**	**1**	0.30	0.13	2/20/2013 18:52	J
Cadmium	**0.32**	**ug/L**	**U**	**1**	0.60	0.32	2/20/2013 18:52	J
Chromium	**1.1**	**ug/L**	**I**	**1**	4.0	0.50	2/20/2013 18:52	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338004** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-4** Date Collected: 02/12/13 13:00

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**0.60**	**ug/L**	**U**	**1**	4.0	0.60	2/20/2013 18:52	J
Iron	**57**	**ug/L**	**I**	**1**	200	38	2/22/2013 18:46	J
Manganese	**5.8**	**ug/L**		**1**	1.0	0.24	2/20/2013 18:52	J
Nickel	**1.1**	**ug/L**	**U**	**1**	6.5	1.1	2/20/2013 18:52	J
Sodium	**32**	**mg/L**	**V**	**1**	0.20	0.026	2/20/2013 18:52	J
Vanadium	**12**	**ug/L**		**1**	1.5	0.18	2/20/2013 18:52	J
Zinc	**12**	**ug/L**		**1**	10	2.0	2/20/2013 18:52	J
Analysis Desc: SW846 6020B Analysis,Total	**Preparation Method: SW-846 3010A**							
	Analytical Method: SW-846 6020							
Antimony	**1.9**	**ug/L**	**V**	**1**	0.60	0.073	2/26/2013 20:52	J
Arsenic	**0.36**	**ug/L**	**U**	**1**	1.0	0.36	2/26/2013 20:52	J
Copper	**1.2**	**ug/L**	**I**	**1**	7.0	0.10	2/26/2013 20:52	J
Lead	**0.12**	**ug/L**	**I**	**1**	0.70	0.076	2/26/2013 20:52	J
Selenium	**2.2**	**ug/L**	**U**	**1**	5.0	2.2	2/26/2013 20:52	J
Silver	**0.059**	**ug/L**	**U**	**1**	0.30	0.059	2/26/2013 20:52	J
Thallium	**0.19**	**ug/L**	**I**	**1**	0.20	0.067	2/26/2013 20:52	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	2/22/2013 11:41	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	**Analytical Method: EPA 300.0**							
Chloride	**13**	**mg/L**		**1**	7.5	0.78	2/13/2013 19:39	A
Fluoride	**0.16**	**mg/L**	**I**	**1**	0.50	0.075	2/13/2013 19:39	A
Nitrate	**5.2**	**mg/L**		**1**	0.50	0.051	2/13/2013 19:39	A
Analysis Desc: Ammonia,E350.1,Water	**Analytical Method: EPA 350.1**							
Ammonia (N)	**0.084**	**mg/L**	**I**	**1**	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	**Analytical Method: SM 2540C**							
Total Dissolved Solids	**270**	**mg/L**		**1**	10	10	2/15/2013 15:30	A

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338005** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-4A** Date Collected: 02/13/13 09:11

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**624**	**umhos/cm**		**1**			2/13/2013 08:58	A^
Dissolved Oxygen	**0.49**	**mg/L**		**1**			2/13/2013 08:58	A^
Groundwater Elevation	**43.82**	**feet**		**1**			2/13/2013 08:58	A^
Temperature	**26.31**	**°C**		**1**			2/13/2013 08:58	A^
Turbidity	**2.32**	**NTU**		**1**			2/13/2013 08:58	A^
pH	**6.93**	**pH unit**		**1**			2/13/2013 08:58	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	2/20/2013 18:57	J
Barium	**12**	**ug/L**		**1**	2.0	0.28	2/20/2013 18:57	J
Beryllium	**0.13**	**ug/L**	**U**	**1**	0.30	0.13	2/20/2013 18:57	J
Cadmium	**0.32**	**ug/L**	**U**	**1**	0.60	0.32	2/20/2013 18:57	J
Chromium	**1.2**	**ug/L**	**I**	**1**	4.0	0.50	2/20/2013 18:57	J
Cobalt	**0.60**	**ug/L**	**U**	**1**	4.0	0.60	2/20/2013 18:57	J
Iron	**38**	**ug/L**	**U**	**1**	200	38	2/22/2013 18:51	J
Manganese	**1.8**	**ug/L**		**1**	1.0	0.24	2/20/2013 18:57	J
Nickel	**1.1**	**ug/L**	**U**	**1**	6.5	1.1	2/20/2013 18:57	J
Sodium	**23**	**mg/L**	**V**	**1**	0.20	0.026	2/20/2013 18:57	J
Vanadium	**5.7**	**ug/L**		**1**	1.5	0.18	2/20/2013 18:57	J
Zinc	**12**	**ug/L**		**1**	10	2.0	2/20/2013 18:57	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**1.6**	**ug/L**	**V**	**1**	0.60	0.073	2/26/2013 21:01	J
Arsenic	**0.36**	**ug/L**	**U**	**1**	1.0	0.36	2/26/2013 21:01	J
Copper	**0.30**	**ug/L**	**I**	**1**	7.0	0.10	2/26/2013 21:01	J
Lead	**0.11**	**ug/L**	**I**	**1**	0.70	0.076	2/26/2013 21:01	J
Selenium	**2.2**	**ug/L**	**U**	**1**	5.0	2.2	2/26/2013 21:01	J
Silver	**0.059**	**ug/L**	**U**	**1**	0.30	0.059	2/26/2013 21:01	J
Thallium	**0.30**	**ug/L**		**1**	0.20	0.067	2/26/2013 21:01	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	2/22/2013 11:44	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338005** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-4A** Date Collected: 02/13/13 09:11

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**23**	**mg/L**		1	7.5	0.78	2/13/2013 20:30	A
Fluoride	**0.075**	**mg/L**	U	1	0.50	0.075	2/13/2013 20:30	A
Nitrate	**13**	**mg/L**		2	1.0	0.10	2/14/2013 10:04	A
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.066**	**mg/L**	I	1	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540C							
Total Dissolved Solids	**340**	**mg/L**		1	10	10	2/15/2013 15:30	A

Lab ID: **A1301338006** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-4B** Date Collected: 02/13/13 09:53

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**119**	**umhos/cm**		1			2/13/2013 09:40	A^
Dissolved Oxygen	**6**	**mg/L**		1			2/13/2013 09:40	A^
Groundwater Elevation	**43.86**	**feet**		1			2/13/2013 09:40	A^
Temperature	**25.62**	**°C**		1			2/13/2013 09:40	A^
Turbidity	**4.7**	**NTU**		1			2/13/2013 09:40	A^
pH	**8.93**	**pH unit**		1			2/13/2013 09:40	A^
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Aluminum	**260**	**ug/L**		1	200	61	2/20/2013 19:23	J
Barium	**3.4**	**ug/L**		1	2.0	0.28	2/20/2013 19:23	J
Beryllium	**0.13**	**ug/L**	U	1	0.30	0.13	2/20/2013 19:23	J
Cadmium	**0.32**	**ug/L**	U	1	0.60	0.32	2/20/2013 19:23	J
Chromium	**2.5**	**ug/L**	I	1	4.0	0.50	2/20/2013 19:23	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338006** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-4B** Date Collected: 02/13/13 09:53

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	**0.60**	**ug/L**	**U**	**1**	4.0	0.60	2/20/2013 19:23	J
Iron	**38**	**ug/L**	**U**	**1**	200	38	2/22/2013 19:15	J
Manganese	**0.24**	**ug/L**	**U**	**1**	1.0	0.24	2/20/2013 19:23	J
Nickel	**1.1**	**ug/L**	**U**	**1**	6.5	1.1	2/20/2013 19:23	J
Sodium	**8.5**	**mg/L**	**V**	**1**	0.20	0.026	2/20/2013 19:23	J
Vanadium	**15**	**ug/L**		**1**	1.5	0.18	2/20/2013 19:23	J
Zinc	**10**	**ug/L**		**1**	10	2.0	2/20/2013 19:23	J
Analysis Desc: SW846 6020B Analysis,Total		**Preparation Method: SW-846 3010A**						
		Analytical Method: SW-846 6020						
Antimony	**1.6**	**ug/L**	**V**	**1**	0.60	0.073	2/26/2013 21:11	J
Arsenic	**0.36**	**ug/L**	**U**	**1**	1.0	0.36	2/26/2013 21:11	J
Copper	**0.25**	**ug/L**	**I**	**1**	7.0	0.10	2/26/2013 21:11	J
Lead	**0.19**	**ug/L**	**I**	**1**	0.70	0.076	2/26/2013 21:11	J
Selenium	**2.2**	**ug/L**	**U**	**1**	5.0	2.2	2/26/2013 21:11	J
Silver	**0.059**	**ug/L**	**U**	**1**	0.30	0.059	2/26/2013 21:11	J
Thallium	**0.10**	**ug/L**	**I**	**1**	0.20	0.067	2/26/2013 21:11	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	2/22/2013 11:46	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water		**Analytical Method: EPA 300.0**						
Chloride	**4.1**	**mg/L**	**I**	**1**	7.5	0.78	2/13/2013 20:55	A
Fluoride	**0.13**	**mg/L**	**I**	**1**	0.50	0.075	2/13/2013 20:55	A
Nitrate	**2.0**	**mg/L**		**1**	0.50	0.051	2/13/2013 20:55	A
Analysis Desc: Ammonia,E350.1,Water		**Analytical Method: EPA 350.1**						
Ammonia (N)	**0.072**	**mg/L**	**I**	**1**	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C		**Analytical Method: SM 2540C**						
Total Dissolved Solids	**70**	**mg/L**		**1**	10	10	2/15/2013 15:30	A

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338007** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-6A** Date Collected: 02/13/13 12:03

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			2/13/2013 11:50	A^
Dissolved Oxygen	**7.32**	**mg/L**		1			2/13/2013 11:50	A^
Groundwater Elevation	**44.09**	**feet**		1			2/13/2013 11:50	A^
Temperature	**24.7**	**°C**		1			2/13/2013 11:50	A^
Turbidity	**10.6**	**NTU**		1			2/13/2013 11:50	A^
pH	**7.73**	**pH unit**		1			2/13/2013 11:50	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	2/20/2013 19:28	J
Barium	**2.2**	**ug/L**		1	2.0	0.28	2/20/2013 19:28	J
Beryllium	**0.13**	**ug/L**	**U**	1	0.30	0.13	2/20/2013 19:28	J
Cadmium	**0.32**	**ug/L**	**U**	1	0.60	0.32	2/20/2013 19:28	J
Chromium	**3.3**	**ug/L**	**I**	1	4.0	0.50	2/20/2013 19:28	J
Cobalt	**0.60**	**ug/L**	**U**	1	4.0	0.60	2/20/2013 19:28	J
Iron	**38**	**ug/L**	**U**	1	200	38	2/22/2013 19:19	J
Manganese	**0.24**	**ug/L**	**U**	1	1.0	0.24	2/20/2013 19:28	J
Nickel	**1.1**	**ug/L**	**U**	1	6.5	1.1	2/20/2013 19:28	J
Sodium	**3.1**	**mg/L**	**V**	1	0.20	0.026	2/20/2013 19:28	J
Vanadium	**7.6**	**ug/L**		1	1.5	0.18	2/20/2013 19:28	J
Zinc	**10**	**ug/L**		1	10	2.0	2/20/2013 19:28	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**1.5**	**ug/L**	**V**	1	0.60	0.073	2/26/2013 21:20	J
Arsenic	**0.36**	**ug/L**	**U**	1	1.0	0.36	2/26/2013 21:20	J
Copper	**0.16**	**ug/L**	**I**	1	7.0	0.10	2/26/2013 21:20	J
Lead	**0.12**	**ug/L**	**I**	1	0.70	0.076	2/26/2013 21:20	J
Selenium	**2.2**	**ug/L**	**U**	1	5.0	2.2	2/26/2013 21:20	J
Silver	**0.059**	**ug/L**	**U**	1	0.30	0.059	2/26/2013 21:20	J
Thallium	**0.14**	**ug/L**	**I**	1	0.20	0.067	2/26/2013 21:20	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	2/22/2013 11:48	J

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338007** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-6A** Date Collected: 02/13/13 12:03

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**8.2**	**mg/L**		1	7.5	0.78	2/13/2013 21:21	A
Fluoride	**0.075**	**mg/L**	U	1	0.50	0.075	2/13/2013 21:21	A
Nitrate	**5.4**	**mg/L**		1	0.50	0.051	2/13/2013 21:21	A
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.081**	**mg/L**	I	1	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540C							
Total Dissolved Solids	**140**	**mg/L**		1	10	10	2/15/2013 15:30	A

Lab ID: **A1301338008** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-8** Date Collected: 02/12/13 10:10

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**342**	**umhos/cm**		1			2/12/2013 09:53	A^
Dissolved Oxygen	**4.55**	**mg/L**		1			2/12/2013 09:53	A^
Groundwater Elevation	**45.14**	**feet**		1			2/12/2013 09:53	A^
Temperature	**24.01**	**°C**		1			2/12/2013 09:53	A^
Turbidity	**0.24**	**NTU**		1			2/12/2013 09:53	A^
pH	**7.28**	**pH unit**		1			2/12/2013 09:53	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	2/20/2013 19:33	J
Barium	**3.6**	**ug/L**		1	2.0	0.28	2/20/2013 19:33	J
Beryllium	**0.13**	**ug/L**	U	1	0.30	0.13	2/20/2013 19:33	J
Cadmium	**0.32**	**ug/L**	U	1	0.60	0.32	2/20/2013 19:33	J
Chromium	**3.1**	**ug/L**	I	1	4.0	0.50	2/20/2013 19:33	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338008** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-8** Date Collected: 02/12/13 10:10

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Cobalt	0.60	ug/L	U	1	4.0	0.60	2/20/2013 19:33	J
Iron	38	ug/L	U	1	200	38	2/22/2013 19:24	J
Manganese	0.24	ug/L	U	1	1.0	0.24	2/20/2013 19:33	J
Nickel	1.1	ug/L	U	1	6.5	1.1	2/20/2013 19:33	J
Sodium	5.2	mg/L	V	1	0.20	0.026	2/20/2013 19:33	J
Vanadium	8.2	ug/L		1	1.5	0.18	2/20/2013 19:33	J
Zinc	11	ug/L		1	10	2.0	2/20/2013 19:33	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A							
	Analytical Method: SW-846 6020							
Antimony	1.5	ug/L	V	1	0.60	0.073	2/26/2013 21:29	J
Arsenic	0.36	ug/L	U	1	1.0	0.36	2/26/2013 21:29	J
Copper	0.10	ug/L	U	1	7.0	0.10	2/26/2013 21:29	J
Lead	0.085	ug/L	I	1	0.70	0.076	2/26/2013 21:29	J
Selenium	2.2	ug/L	U	1	5.0	2.2	2/26/2013 21:29	J
Silver	0.059	ug/L	U	1	0.30	0.059	2/26/2013 21:29	J
Thallium	0.12	ug/L	I	1	0.20	0.067	2/26/2013 21:29	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	2/22/2013 11:50	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	8.5	mg/L		1	7.5	0.78	2/13/2013 20:04	A
Fluoride	0.16	mg/L	I	1	0.50	0.075	2/13/2013 20:04	A
Nitrate	1.9	mg/L		1	0.50	0.051	2/13/2013 20:04	A
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	0.067	mg/L	I	1	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540C							
Total Dissolved Solids	190	mg/L		1	10	10	2/15/2013 15:30	A

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338009** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **MW-9A** Date Collected: 02/13/13 10:55

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Analytical Method: DISRES							
Conductance	**927**	**umhos/cm**		1			2/13/2013 10:42	A^
Dissolved Oxygen	**0.41**	**mg/L**		1			2/13/2013 10:42	A^
Groundwater Elevation	**42.91**	**feet**		1			2/13/2013 10:42	A^
Temperature	**25.49**	**°C**		1			2/13/2013 10:42	A^
Turbidity	**13**	**NTU**		1			2/13/2013 10:42	A^
pH	**6.48**	**pH unit**		1			2/13/2013 10:42	A^
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Aluminum	**210**	**ug/L**		1	200	61	2/20/2013 19:39	J
Barium	**12**	**ug/L**		1	2.0	0.28	2/20/2013 19:39	J
Beryllium	**0.13**	**ug/L**	**U**	1	0.30	0.13	2/20/2013 19:39	J
Cadmium	**0.81**	**ug/L**		1	0.60	0.32	2/20/2013 19:39	J
Chromium	**5.9**	**ug/L**		1	4.0	0.50	2/20/2013 19:39	J
Cobalt	**18**	**ug/L**		1	4.0	0.60	2/20/2013 19:39	J
Iron	**1700**	**ug/L**		1	200	38	2/22/2013 19:29	J
Manganese	**96**	**ug/L**		1	1.0	0.24	2/20/2013 19:39	J
Nickel	**11**	**ug/L**		1	6.5	1.1	2/20/2013 19:39	J
Sodium	**21**	**mg/L**	**V**	1	0.20	0.026	2/20/2013 19:39	J
Vanadium	**2.2**	**ug/L**		1	1.5	0.18	2/20/2013 19:39	J
Zinc	**16**	**ug/L**		1	10	2.0	2/20/2013 19:39	J
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A Analytical Method: SW-846 6020							
Antimony	**1.5**	**ug/L**	**V**	1	0.60	0.073	2/26/2013 21:38	J
Arsenic	**0.78**	**ug/L**	**I**	1	1.0	0.36	2/26/2013 21:38	J
Copper	**1.6**	**ug/L**	**I**	1	7.0	0.10	2/26/2013 21:38	J
Lead	**0.41**	**ug/L**	**I**	1	0.70	0.076	2/26/2013 21:38	J
Selenium	**2.2**	**ug/L**	**U**	1	5.0	2.2	2/26/2013 21:38	J
Silver	**0.059**	**ug/L**	**U**	1	0.30	0.059	2/26/2013 21:38	J
Thallium	**0.28**	**ug/L**		1	0.20	0.067	2/26/2013 21:38	J
Analysis Desc: SW846 7470A Analysis,Water	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.071**	**ug/L**	**I**	1	0.10	0.014	2/22/2013 11:58	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338009** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **MW-9A** Date Collected: 02/13/13 10:55

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**23**	**mg/L**		1	7.5	0.78	2/13/2013 21:46	A
Fluoride	**0.19**	**mg/L**	I	1	0.50	0.075	2/13/2013 21:46	A
Nitrate	**0.34**	**mg/L**	I	1	0.50	0.051	2/13/2013 21:46	A
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.636**	**mg/L**		1	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540C							
Total Dissolved Solids	**520**	**mg/L**		1	10	10	2/15/2013 15:30	A

Lab ID: **A1301338010** Date Received: 02/13/13 13:57 Matrix: Water
Sample ID: **EQ BLANK** Date Collected: 02/13/13 08:40

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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	2/20/2013 19:44	J
Barium	**0.28**	**ug/L**	**U**	1	2.0	0.28	2/20/2013 19:44	J
Beryllium	**0.13**	**ug/L**	**U**	1	0.30	0.13	2/20/2013 19:44	J
Cadmium	**0.32**	**ug/L**	**U**	1	0.60	0.32	2/20/2013 19:44	J
Chromium	**0.50**	**ug/L**	**U**	1	4.0	0.50	2/20/2013 19:44	J
Cobalt	**0.60**	**ug/L**	**U**	1	4.0	0.60	2/20/2013 19:44	J
Iron	**38**	**ug/L**	**U**	1	200	38	2/22/2013 19:34	J
Manganese	**0.26**	**ug/L**	**I**	1	1.0	0.24	2/20/2013 19:44	J
Nickel	**1.1**	**ug/L**	**U**	1	6.5	1.1	2/20/2013 19:44	J
Sodium	**0.24**	**mg/L**	**V**	1	0.20	0.026	2/20/2013 19:44	J
Vanadium	**0.18**	**ug/L**	**U**	1	1.5	0.18	2/20/2013 19:44	J
Zinc	**11**	**ug/L**		1	10	2.0	2/20/2013 19:44	J

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ANALYTICAL RESULTS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID: **A1301338010** Date Received: 02/13/13 13:57 Matrix: Water

Sample ID: **EQ BLANK** Date Collected: 02/13/13 08:40

Sample Description: Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6020B Analysis,Total	Preparation Method: SW-846 3010A							
	Analytical Method: SW-846 6020							
Antimony	**1.4**	**ug/L**	**V**	**1**	0.60	0.073	2/26/2013 21:47	J
Arsenic	**0.36**	**ug/L**	**U**	**1**	1.0	0.36	2/26/2013 21:47	J
Copper	**0.10**	**ug/L**	**U**	**1**	7.0	0.10	2/26/2013 21:47	J
Lead	**0.088**	**ug/L**	**I**	**1**	0.70	0.076	2/26/2013 21:47	J
Selenium	**2.2**	**ug/L**	**U**	**1**	5.0	2.2	2/26/2013 21:47	J
Silver	**0.059**	**ug/L**	**U**	**1**	0.30	0.059	2/26/2013 21:47	J
Thallium	**0.092**	**ug/L**	**I**	**1**	0.20	0.067	2/26/2013 21:47	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	2/22/2013 12:00	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**0.78**	**mg/L**	**U**	**1**	7.5	0.78	2/13/2013 22:12	A
Fluoride	**0.075**	**mg/L**	**U**	**1**	0.50	0.075	2/13/2013 22:12	A
Nitrate	**0.051**	**mg/L**	**U**	**1**	0.50	0.051	2/13/2013 22:12	A
Analysis Desc: Ammonia,E350.1,Water	Analytical Method: EPA 350.1							
Ammonia (N)	**0.061**	**mg/L**	**I**	**1**	0.10	0.025	2/19/2013 15:29	T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540C							
Total Dissolved Solids	**10**	**mg/L**	**U**	**1**	10	10	2/15/2013 15:30	A

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338003 MW-2
Sample Collection:	02-12-13/1135
Lab ID No:	13.1040
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.2 ± 0.7	02-25-13/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.7 U ± 0.8	Calc	Calc	N/A
Radium-226	pCi/l	0.7 U ± 0.6	02-22-13/1100	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.8	02-24-13/0940	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338004 MW-4
Sample Collection:	02-12-13/1300
Lab ID No:	13.1041
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	5.9 ± 1.5	02-25-13/0800	EPA 900.0	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.8 ± 0.8	Calc	Calc	1.0
Radium-226	pCi/l	1.8 ± 0.8	02-22-13/1100	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.8	02-24-13/0940	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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

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DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338005 MW-4A
Sample Collection:	02-13-13/0911
Lab ID No:	13.1042
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.1 ± 1.3	02-25-13/0800	EPA 900.0	1.5
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.2 ± 0.9	Calc	Calc	1.0
Radium-226	pCi/l	2.2 ± 0.9	02-22-13/1100	EPA 903.0	0.8
Radium-228	pCi/l	1.0 U ± 0.7	02-24-13/0940	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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

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Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338006 MW-4B
Sample Collection:	02-13-13/0953
Lab ID No:	13.1043
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.9 U ± 0.7	02-25-13/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.1 ± 0.8	Calc	Calc	1.0
Radium-226	pCi/l	1.1 I ± 0.6	02-22-13/1100	EPA 903.0	0.6
Radium-228	pCi/l	1.0 U ± 0.8	02-24-13/0940	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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

Page 1 of 1

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

DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338007 MW-6A
Sample Collection:	02-13-13/1203
Lab ID No:	13.1044
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.9 U ± 0.6	02-25-13/0800	EPA 900.0	0.9
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.7 U ± 0.8	Calc	Calc	N/A
Radium-226	pCi/l	0.7 U ± 0.5	02-22-13/1100	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.8	02-24-13/1310	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338008 MW-8
Sample Collection:	02-12-13/1010
Lab ID No:	13.1045
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.1 U ± 0.8	02-25-13/0800	EPA 900.0	1.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.6 U ± 0.9	Calc	Calc	N/A
Radium-226	pCi/l	0.6 U ± 0.5	02-22-13/1100	EPA 903.0	0.6
Radium-228	pCi/l	1.0 U ± 0.9	02-24-13/1310	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
1 = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W Hayes

James W. Hayes
Laboratory Manager

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

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338009 MW-9A
Sample Collection:	02-13-13/1055
Lab ID No:	13.1046
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	12.8 ± 2.1	02-25-13/0800	EPA 900.0	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	4.6 ± 0.9	Calc	Calc	1.0
Radium-226	pCi/l	3.6 ± 0.9	02-22-13/1100	EPA 903.0	0.6
Radium-228	pCi/l	1.0 U ± 0.9	02-24-13/1310	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338001 MW-10
Sample Collection:	02-12-13/1047
Lab ID No:	13.1038
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	14.3 ± 2.3	02-25-13/0800	EPA 900.0	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	3.6 ± 0.8	Calc	Calc	1.0
Radium-226	pCi/l	2.6 ± 0.8	02-22-13/1010	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.7	02-24-13/0940	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338002 MW-11
Sample Collection:	02-12-13/0940
Lab ID No:	13.1039
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	6.1 ± 1.4	02-25-13/0800	EPA 900.0	1.2
Combined Radium (Radium-226 + Radium 228)	pCi/l	4.6 ± 1.0	Calc	Calc	1.0
Radium-226	pCi/l	3.6 ± 1.0	02-22-13/1100	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.7	02-24-13/0940	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W Hayes

James W. Hayes
Laboratory Manager

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

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DOH Certification #E84025
DEP COMPQAP # 870251

Report Date: February 25, 2013

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

Attn: Myrna Santiago

Field Custody:	Client
Client/Field ID:	A1301338010 EQ BLANK
Sample Collection:	02-13-13/0840
Lab ID No:	13.1047
Lab Custody Date:	02-19-13/1210
Sample description:	WATER

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	0.8 U ± 0.5	02-25-13/0800	EPA 900.0	0.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.5 U ± 0.8	Calc	Calc	N/A
Radium-226	pCi/l	0.5 U ± 0.4	02-22-13/1100	EPA 903.0	0.5
Radium-228	pCi/l	1.0 U ± 0.8	02-24-13/1310	EPA Ra-05	1.0

Alpha Standard: Th-230

U = indicates that the compound was analyzed for but not detected.
I = the reported value is between the laboratory detection limit and the laboratory practical quantitation limit.

James W. Hayes
Laboratory Manager

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

Page 1 of 1

FIELD LOG

Well Water Levels

PROJ # P-468

NAME: Dale Clayton

PROJECT NAME: Sumter Co. Landfill

DATE: 2/14/13

PROJECT LOCATION: Sumterville, FL

TIME	COMMENTS	
	Well #	WL (ft. btoc)
	MW-1	26.53'
	MW-2	25.23'
	MW-2A	28.30'
	MW-4	26.65'
	MW-4A	31.86'
	MW-4B	29.93'
	MW-4C	27.33'
	MW-4D	29.72'
	MW-6A	33.41'
	MW-7	29.24'
	MW-8	24.10'
	MW-9	28.82'
	MW-9A	31.30'
	MW-10	24.27'
	MW-11	26.42'

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 2/12/13

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 25.25	PURGE PUMP TYPE OR BAILER: PP

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

1 Well Vol = (31.92' feet – 25.25 feet) X .16 gallons/foot = 1.0672 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) X 3 = .6168

1 Equip Vol = .02 gallons + (.0006 gallons/foot X 31 feet) + .125 gallons = .2056 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~27'	PURGING INITIATED AT: 1059	PURGING ENDED AT: 1118	TOTAL VOLUME PURGED (gallons): 1.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1114	1.50	1.50	.1	25.43	7.05	26.63	239	6.45	0.68	Clear	None
1116	.2	1.70	.1	25.42	7.01	26.62	246	6.40	2.52	Clear	None
1118	.2	1.90	.1	25.42	7.03	26.26	259	6.42	3.33	Clear	None
				25.42'							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1120	SAMPLING ENDED AT: 1135
PUMP OR TUBING DEPTH IN WELL (feet): ~27'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N WL Probe only	FIELD-FILTERED: Y (N) Filtration Equipment Type:	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-2	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	APP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP
"	1	PE	250 mL	HN03	None	—	Metals	APP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	APP

REMARKS:

1059: Set dedicated 1/4" PE tubing at ~27' btoc and started pump at .1 gpm.

1110: WL 25.44' at .1 gpm, GW is clear.

1112: WL 25.43' at .1 gpm, drawdown is stable. DO is high at 6.56 mg/L, but is typical for this well. Will use optional stabilization criteria below for DO.

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

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

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

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 2/12/13

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): .3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.68'	PURGE PUMP TYPE OR BAILER: ~~ESP~~ PP

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

1 Well Vol = (36.35' feet – 26.68' feet) X .16 gallons/foot = 1.5472 gallons

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

1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + .125 gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~28.5'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~28.5'	PURGING INITIATED AT: 1203	PURGING ENDED AT: 1239	TOTAL VOLUME PURGED (gallons): 1.80

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)
1233	1.60	1.60	.05	26.83	7.23	26.27	525	1.10	0.26	Clear	None
1237	.1	1.70	.05	26.83	7.23	26.23	526	1.11	0.88	Clear	None
1239	.1	1.80	.05	26.83	7.24	26.23	526	1.21	0.29	Clear	None
									No sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1300
PUMP OR TUBING DEPTH IN WELL (feet): ~28.5'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N with probe only	FIELD-FILTERED: Y (N) Filtration Equipment Type: 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	---	GrossAlpha, RA226RA228	APP ~~ESP~~
"	1	PE	250 mL	H2S04	None	---	Ammonia	APP ~~ESP~~
"	1	PE	250 mL	HN03	None	---	Metals	APP ~~ESP~~
"	1	PE	500 mL	None	None	---	Chloride, Fluoride, Nitrate, TDS	APP ~~ESP~~

REMARKS:

1203: Set dedicated 1/4" PE tubing at ~28.5' btoc and started pump at .05 gpm.

1218: WL 26.83' at .05 gpm, GW is clear.

1234: WL 26.83' at .05 gpm, drawdown is stable. All parameters are stable or in range.

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

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

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

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-4A	SAMPLE ID: MW-4A	DATE: 2/13/18

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.91	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 – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X 3 = 1.18 1.345 (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: 0844	PURGING ENDED AT: 0858	TOTAL VOLUME PURGED (gallons): 3.50

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)
0854	2.50	2.50	.25	32.12	6.85	26.30	624	0.51	5.84	Clear	Slight
0856	.5	3.00	.25	32.12	6.82	26.30	624	0.55	3.36	Clear	Same
0858	.5	3.50	.25	32.12	6.93	26.31	624	0.49	2.32	Clear	Same
									No sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0859	SAMPLING ENDED AT: 0911
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: 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-4A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

0844: ~~Set dbk~~ Inserted SS ESP and dedicated 3/8" PE tubing to ~40' btoc and started pump at .25 gpm.

0848: GW is turbid at 70 NTUs, but is typical for this well. Will over purge to clear it up. Typically requires high flow rate to clean up. WL 32.12' at .25 gpm.

0852: Turbidity has dropped to 13 NTUs. WL is stable at 32.12' at .25 gpm. All other parameters are stable or in range.

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

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

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

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

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: 2/13/18

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 29.97	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)

= (38.49' feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3= 1.119 (only fill out if applicable)

1 Equip Vol = .02 gallons + (.006 gallons/foot X 38' feet) + .125 gallons = .373 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~32'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~32'	PURGING INITIATED AT: 0926	PURGING ENDED AT: 0940	TOTAL VOLUME PURGED (gallons): 3.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0936	2.50	2.50	.25	30.22'	8.92	25.61	118	6.16	5.84	Clear	None
0938	.5	3.00	.25	30.22'	8.93	25.63	119	6.05	4.83	Clear	None
0940	.5	3.50	.25	30.23'	8.93	25.62	119	6.00	4.30	Clear	None
									No Stream		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0941	SAMPLING ENDED AT: 0953
PUMP OR TUBING DEPTH IN WELL (feet): ~32'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: 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-4B	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

0926: Inserted SS ESP and dedicated 3/8" PE tubing to ~32' bTOC and started pump at .25 gpm.

0931: WL 30.23' at .25 gpm, GW is clear. DO is high at 6.41 mg/L, but is typical for this well. Will use optional stabilization criteria below for DO. pH is also high at 8.90, but again, is typical for this well.

0934: WL 30.22' at .25 gpm, all parameters are stable or in 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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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

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: 2/13/13

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.45	PURGE PUMP TYPE OR BAILER: ESP

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

= (50.84' feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3=1.335
(only fill out if applicable)

1 Equip Vol = .02 gallons + (.006 gallons/foot X 50' feet) + .125 gallons = 1.445 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1150	TOTAL VOLUME PURGED (gallons): 7.50

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1146	6.50	6.50	.25	33.50	7.22	24.72	255	7.32	15.2	Clear	None
1148	.5	7.00	.25	33.50	7.22	24.71	255	7.34	12.5	Clear	None
1150	.5	7.50	.25	33.50	7.23	24.70	255	7.32	10.6	Clear	None
									No Sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1151	SAMPLING ENDED AT: 1203
PUMP OR TUBING DEPTH IN WELL (feet): ~45'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				
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-6A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

1120: Inserted SS ESP and dedicated 3/8" PE tubing to ~45' btoc and started pump at .25 gpm.

1126: WL 33.50' at .25 gpm, GW is turbid, but typical for this well. Will over purge to clear it up.

1136: Turbidity is at 44 NTUs. DO is high at 7.50 mg/L, but is typical for this well. Continuing purge. Will use optional stabilization criteria for DO if necessary.

1144: Turbidity has dropped to 18 NTUs, DO is high at 7.36 mg/L. All other parameters are stable or in range. Drawdown is stable at 33.50' btoc.

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

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

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

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 2/12/13

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.12	PURGE PUMP TYPE OR BAILER: ~~ESP~~ PP

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

= (43.24' 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) X3: .7104

1 Equip Vol = ~~.02~~ 0 gallons + (~~.0006~~ .0026 gallons/foot X 43 feet) + .125 gallons = gallons .2368

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~38'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~38'	PURGING INITIATED AT: 0942	PURGING ENDED AT: 0953	TOTAL VOLUME PURGED (gallons): 1.10

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)
0949	.70	.70	.1	24.15	7.23	23.96	341	4.60	0.68	Clear	None
0951	.2	.90	.1	24.15	7.27	23.96	341	4.57	0.22	Clear	None
0953	.2	1.10	.1	24.15	7.28	24.01	342	4.55	0.29	Clear	None
									No Sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0954	SAMPLING ENDED AT: ~~1005~~ 1010
PUMP OR TUBING DEPTH IN WELL (feet): ~38'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N Soil probe only	FIELD-FILTERED: Y (N) Filtration Equipment Type:	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-8	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	APP ~~ESP~~
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP ~~ESP~~
"	1	PE	250 mL	HN03	None	—	Metals	APP ~~ESP~~
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	APP ~~ESP~~

REMARKS:

0942: Set dedicated 1/4" PE tubing at ~38' btoc and started pump at .1 gpm.

0946: WL 24.15' at .1 gpm, GW is clear. DO is high at 4.67 mg/L, but is typical for this well. Will use optional stabilization criteria below for DO. All other parameters are stable or in range.

0948: WL 24.15' at .1 gpm, WL 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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-9A	SAMPLE ID: MW-9A	DATE: 2/13/12

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 31.35	PURGE PUMP TYPE OR BAILER: ESP

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

= (50.17' feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3: 1.335
(only fill out if applicable)

1 Equip Vol = .02 gallons + (.006 gallons/foot X 50' feet) + .125 gallons = 1.445 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~45'	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1043	TOTAL VOLUME PURGED (gallons): 11.50

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)
1038	10.50	10.50	.25	34.08'	6.47	25.48	930	0.52	17.6	Clear	Sulfer
1040	.5	11.00	.25	34.09'	6.48	25.49	927	0.46	14.6	Clear	Same
1042	.5	11.50	.25	34.09'	6.48	25.49	927	0.41	13.8	Clear	Same
									No Sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1043	SAMPLING ENDED AT: 1055
PUMP OR TUBING DEPTH IN WELL (feet): ~45'	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type: 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-9A	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP

REMARKS:

1010: Inserted SS ESP and dedicated 3/8" PE tubing to ~45' btoc and started pump at .5 gpm. This well typicall requires purging at a high flow rate to clean up turbidity.

1015: GW is still extremely turbid, continuing purge.

1024: Turbidity is at 66 NTUs, reduced flow to .25 gpm.

1034: WL 34.07' at .25 gpm, turbidity is at 21 NTUs, continuing purge.

1036: Turbidity is at 19 NTUs, WL 34.08' at .25 gpm and is stable. All other parameters are stable or in range.

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

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

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

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 2/12/13

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 24.29'	PURGE PUMP TYPE OR BAILER: ~~ESP~~ PP

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

= (45.35' feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME X3=.726
(only fill out if applicable)

1 Equip Vol = 0 gallons + (.0026 gallons/foot X 45' feet) + .125 gallons = 1242 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~40'	PURGING INITIATED AT: 1024	PURGING ENDED AT: 1036	TOTAL VOLUME PURGED (gallons): 1.20

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	.80	.80	.1	24.83'	6.89	24.98	652	0.77	6.47	Clear	Sulfur
1034	.2	1.00	.1	24.83'	6.89	25.03	647	0.71	2.28	Clear	Same
1036	.2	1.20	.1	24.83'	6.88	25.04	642	0.62	6.55	Clear	Same
									No Stream		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1037	SAMPLING ENDED AT: 1047
PUMP OR TUBING DEPTH IN WELL (feet): ~40'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N We broke early	FIELD-FILTERED: Y (N) Filtration Equipment Type:	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-10	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	APP ~~ESP~~
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP ~~ESP~~
"	1	PE	250 mL	HN03	None	—	Metals	APP ~~ESP~~
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	APP ~~ESP~~

REMARKS:

1024: Set dedicated 1/4" PE tubing at ~40' btoc and started pump at .1 gpm.

1029: WL 24.82' at .1 gpm, GW is clear.

1031: WL 24.83' at .1 gpm, all parameters are stable or in 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; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill	SITE LOCATION: Sumterville, FL	
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 2/12/13

PURGING DATA

WELL DIAMETER (inches): 2" PVC	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.45	PURGE PUMP TYPE OR BAILER: ~~ESP~~ BP

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

= (40.15' 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 = 0 gallons + (.0026 gallons/foot X 40' feet) + .125 gallons = .229 gallons X3=.687

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~35'	PURGING INITIATED AT: 0902	PURGING ENDED AT: 0917	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (mS/cm) µ	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0913	.77	.77	.07	26.50'	6.21	24.95	326	1.32	11.8	Clear	None
0915	.14	.91	.03	26.50'	6.22	24.95	331	1.20	3.29	Clear	None
0917	.14	1.05	.07	26.50	6.22	25.00	334	1.15	5.42	Clear	None
									No sheen		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0918	SAMPLING ENDED AT: 0940
PUMP OR TUBING DEPTH IN WELL (feet): ~35'	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N WL probe	FIELD-FILTERED: Y (N) Filtration Equipment Type:	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-11	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226,RA228	APP ~~ESP~~
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	APP ~~ESP~~
"	1	PE	250 mL	HN03	None	—	Metals	APP ~~ESP~~
"	1	PE	500 mL	None	None	—	Chloride,Fluoride, Nitrate, TDS	APP ~~ESP~~

REMARKS:

0902: Set dedicated 1/4" PE tubing at ~35' btoc and started pump at .07gpm.

0906: WL 26.50' at .07 gpm, turbidity is high at 28 NTU's, but is typical for this well. Will over purge to clear it up.

0912: Turbidity is at 17 NTU's, all other parameters are stable or in range. WL is stable at 26.50' at .07 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 EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y

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

DEP-SOP-001/01
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Sumter County Landfill		SITE LOCATION: Sumterville, FL
WELL NO: NA	SAMPLE ID: EQB	DATE: 2/13/12

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ESP

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

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

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
NA											

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Dale Claytor, Colinas Group, Inc.	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0830	SAMPLING ENDED AT: 0840
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): < 250 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: (Y) N	FIELD-FILTERED: Y (N) Filtration Equipment Type:	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
EQB	2	PE	1 Ltr	HN03	None	—	GrossAlpha, RA226RA228	ESP
"	1	PE	250 mL	H2S04	None	—	Total Ammonia	ESP
"	1	PE	250 mL	HN03	None	—	Metals	ESP
"	1	PE	500 mL	None	None	—	Chloride, Fluoride, Nitrate, TDS	ESP
~~"~~		~~Various~~	~~Various~~	~~Various~~	~~None~~	—	~~Appendix I~~ Parameters	ESP

REMARKS:

Field decon'd SS ESP and WL probe IAW DEP-SOP-001/01, FC 1000. Inserted ESP and WL probe into 1 gallon of DI water and circulated DI water through pump and over WL probe for several minutes before collecting samples.

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

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

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

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

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9801 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354 • E82574
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6815 SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.378.6839 • E82001
528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 • E83076

A1301338

CLIENT NAME:	The Colinas Group, Inc.
ADDRESS:	377 Maitland Ave Suite 2012
	Altamonte Springs, Florida 32701
PHONE:	407-622-8176
FAX:	407-622-8196
CONTACT:	Dale Claytor
SAMPLED BY:	Dale Claytor
TURN AROUND TIME:	X STANDARD ____ ☐ RUSH ____

Sumter Co. Landfill - GW Sampling

P.O. NUMBER/PROJECT NUMBER: P-468

PROJECT LOCATION: Sumterville, FL

REMARKS/SPECIAL INSTRUCTIONS:

Trip Blank 1 - VOC's only

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	Gross Alpha (1 L P)	Ra 226 + Ra 228 (1 L P)	Sb, Al, Cd, Cr, Fe, Pb, Mn, Hg, Ag, Na, Tl, Ba, As, Be, Co, Cu, Ni, Se, V, Zn (500 mL P)	TDS (250 mL P)	Ammonia (250 mL P)	F, Cl, NO3 (125 mL P)	~~8260 App + VOC~~ (3-40 ml vials)	~~8011 EDB/DBCP~~ (3-40 ml vials)	LABORATORY I.D. NUMBER
	MW-10		2-12-13	1047	W	12	N	X	X	X	X	X	X	X	X	01
	MW-11			0940	W	12	N	X	X	X	X	X	X	X	X	02
	MW-2			1135	W	12	N	X	X	X	X	X	X	X	X	03
	MW-4			1300	W	12	N	X	X	X	X	X	X	X	X	04
	MW-4A		2-13-13	0911	W	12	N	X	X	X	X	X	X	X	X	05
	MW-4B			0953	W	12	N	X	X	X	X	X	X	X	X	06
	MW-6A			1203	W	12	N	X	X	X	X	X	X	X	X	07
	MW-8		2-12-13	1010	W	12	N	X	X	X	X	X	X	X	X	08
	MW-9A		2-13-13	1055	W	12	N	X	X	X	X	X	X	X	X	09
	EQUIPMENT BLANK			0840	W	12	N	X	X	X	X	X	X	X	X	10
	~~TRIP BLANK 1~~ 2/13 DW		2-12-13	—	DI	1								X		
	~~TRIP BLANK 2~~				DI	~~1~~								X		

Received on ice: X Yes ☐ No — X Temp taken from sample ☐ Temp from temp blank ☐ Where required, pH checked — Temperature when received 4 (in degrees celcius)

Form revised 2/6/08

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1		2-13-13	1357	Brandon Offen	2/13/13	1357
2						

FOR DRINKING WATER USE:
(When PWS information not otherwise supplied) PWS ID: ____
Contact Person: ____ Phone: ____

Chain of Custody

Document 5985 - HBN 4898 **Workorder** Sumter Co Landfill 1st **Results Requested By** 2/24/2013

Reported To	Subcontractor	Requested Analysis
Myrna Santiago Advanced Environmental Laboratories, Inc 528 S. North Lake Blvd, Suite 1016 Altamonte Springs, FL 32701 Phone (407)937-1594 Fax (407)937-1597	KNL-FL KNL Laboratory Services, Inc. 2742 North Florida Avenue Tampa, FL 33602 Phone Fax	RUSH 3-1-12

					Submitted Soil Containers																
					HNO3						EPA 903.1	EPA Ra-05	EPA 900								LAB USE ONLY
1	MW-10	2/12/2013 10:47	A1301338001	Water	2						X	X	X								
2	MW-11	2/12/2013 09:40	A1301338002	Water	2						X	X	X								
3	MW-2	2/12/2013 11:35	A1301338003	Water	2						X	X	X								
4	MW-4	2/12/2013 13:00	A1301338004	Water	2						X	X	X								
5	MW-4A	2/13/2013 08:11	A1301338005	Water	2						X	X	X								
6	MW-4B	2/13/2013 09:53	A1301338006	Water	2						X	X	X								
7	MW-6A	2/13/2013 12:03	A1301338007	Water	2						X	X	X								
8	MW-8	2/12/2013 10:10	A1301338008	Water	2						X	X	X								
9	MW-9A	2/13/2013 10:55	A1301338009	Water	2						X	X	X								
10	EQ BLANK	2/13/2013 08:40	A1301338010	Water	2						X	X	X								

13.1038-47

Chain of Custody

Document 5985 - HBN 4898 **Workorder** Sumter Co Landfill 1st **Results Requested By** 2/24/2013

Report To	Subcontract To	Preserved Containers	Requested Analyses
Myrna Santiago Advanced Environmental Laboratories, Inc. 6681 Southpoint Parkway Jacksonville, FL 32216 Phone (904)363-9350 Fax (904)363-9354	KNL-FL KNL Laboratory Services, Inc. 2742 North Florida Avenue Tampa, FL 33602 Phone Fax	HNO3	EPA 903.1, EPA Ra-05, EPA 900 RUSH 3-1-12

LAB USE ONLY

[redacted]

12					
14					

Report Type	Electronic Data Deliverables	Comments
☐ Standard (Results only)	☐ SEDD Stage 2A	~~13.108~~ SR
☐ Standard with Batch QC	☐ SEDD Stage 2B	(13.1038-47)
☐ CLP	☐ SEDD Stage 3	
☐ Other ______	☐ Other ______	

Preservative	Transfers	Released By	Date/Time	Received By	Date/Time
HNO3 = HNO3	1	[signature]	2/18/13 2020	BS	
	2			S Fowler	2-19-13 1210
	3				
	4				
	5				

Field Instrument Calibration Records

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

PARAMETERS:

☒ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL CL ☒ DO ☐ OTHER _____

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

Standard A Oakton pH Standard 4.01 Units *Exp:* 3/2014
Standard B Oakton pH Standard 7.00 Units *Exp:* 6/2014
Standard C Oakton Conductivity Standard 1500 uS/cm *Exp:* 6/2013
Standard D Hanna 0.1 NTU Standard *Exp:* 4/2013
Standard E Hanna 15 NTU Standard *Exp:* 4/2013

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
2/12/13	0830	A	4.01	4.01		Yes	IC	[redacted]	pH
		B	7.00	7.00					pH
		C	1500	1500					Cond
		--	--	9.16					DO
		--	--	19.63					Temp
		D	0.1	0.1					Turb
		E	15	15.0					Turb
2/12/13	0850	A	4.01	3.98		Yes	ICV	[redacted]	pH
		B	7.00	7.02					pH
		C	1500	1502					Cond
		--	--	9.17					DO
		--	--	19.58					Temp
		D	0.1	0.08					Turb
		E	15	15.0					Turb
2/12/13	1400	A	4.01	4.02		Yes	CC	[redacted]	pH
		B	7.00	7.03					pH
		C	1500	1499					Cond
		--	--	8.82					DO
		--	--	21.76					Temp
		D	0.1	0.08					Turb
		E	15	14.9					Turb

Field Instrument Calibration Records

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

PARAMETERS:

☒ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☒ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL CL ☒ DO ☐ OTHER _____

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

Standard A Oakton pH Standard 4.01 Units *Exp:* 3/2014
Standard B Oakton pH Standard 7.00 Units *Exp:* 6/2014
Standard C Oakton Conductivity Standard 1500 uS/cm *Exp:* 6/2013
Standard D Hanna 0.1 NTU Standard *Exp:* 4/2013
Standard E Hanna 15 NTU Standard *Exp:* 4/2013

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
2/13/12	0800	A	4.01	4.01		Yes	IC	[illegible]	pH
		B	7.00	7.00					pH
		C	1500	1500					Cond
		--	--	8.63					DO
		--	--	22.71					Temp
		D	0.1	0.1					Turb
		E	15	15.0					Turb
2/13/12	0820	A	4.01	4.00		Yes	IC	[illegible]	pH
		B	7.00	7.05					pH
		C	1500	1498					Cond
		--	--	8.56					DO
		--	--	22.80					Temp
		D	0.1	0.08					Turb
		E	15	15.0					Turb
2/13/12	DC 1300	A	4.01	4.00		Yes	CL	[illegible]	pH
		B	7.00	7.00					pH
		C	1500	1500					Cond
		--	--	8.57					DO
		--	--	23.25					Temp
		D	0.1	0.09					Turb
		E	15	15.0					Turb

Advanced Environmental Laboratories, Inc.

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

QUALITY CONTROL DATA

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

QC Batch: WCAt/1717 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

Associated Lab Samples: A1301338001, A1301338002, A1301338003, A1301338004, A1301338005, A1301338006, A1301338007,

METHOD BLANK: 1159157

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Ammonia (N)	mg/L	0.025	0.025	U

LABORATORY CONTROL SAMPLE: 1159158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Ammonia (N)	mg/L	3	2.77	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1159159 1159160 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Ammonia (N)	mg/L	0.115	3	3.12	3.14	100	101	90-110	1	10	

QC Batch: DGMj/1178 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 02/20/2013 03:30

Associated Lab Samples: A1301338001, A1301338002, A1301338003, A1301338004, A1301338005, A1301338006, A1301338007,

METHOD BLANK: 1160012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Aluminum	ug/L	61	61	U
Barium	ug/L	0.28	0.28	U
Beryllium	ug/L	0.13	0.13	U
Cadmium	ug/L	0.32	0.32	U
Cobalt	ug/L	0.60	0.60	U
Chromium	ug/L	0.50	0.50	U
Iron	ug/L	38	38	U

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

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

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

METHOD BLANK: 1160012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Manganese	ug/L	0.24	0.24	U
Sodium	mg/L	0.71	0.026	
Nickel	ug/L	1.1	1.1	U
Vanadium	ug/L	0.18	0.18	U
Zinc	ug/L	2.0	2.0	U

LABORATORY CONTROL SAMPLE & LCSD: 1160013 1160014

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Aluminum	ug/L	25000	25000	25000	97	97	80-120	1	20	
Barium	ug/L	400	370	370	92	93	80-120	0	20	
Beryllium	ug/L	400	400	400	100	99	80-120	1	20	
Cadmium	ug/L	400	380	380	95	96	80-120	1	20	
Cobalt	ug/L	400	350	360	88	89	80-120	1	20	
Chromium	ug/L	400	370	380	93	95	80-120	2	20	
Manganese	ug/L	400	360	370	91	92	80-120	1	20	
Sodium	mg/L	50	50	50	99	98	80-120	0	20	
Nickel	ug/L	400	350	360	88	89	80-120	1	20	
Vanadium	ug/L	400	390	390	97	98	80-120	1	20	
Zinc	ug/L	400	360	360	90	91	80-120	1	20	

LABORATORY CONTROL SAMPLE & LCSD: 1160013 1160014

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Iron	ug/L	25000	25000	25000	100	99	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1160015 1160016 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Aluminum	ug/L	170	25000	25000	25000	98	99	75-125	1	20	
Barium	ug/L	14	400	390	390	94	95	75-125	1	20	
Beryllium	ug/L	0	400	410	410	103	103	75-125	1	20	
Cadmium	ug/L	0.53	400	390	390	96	97	75-125	1	20	

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

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

QUALITY CONTROL DATA

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1160015 1160016 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Cobalt	ug/L	0.44	400	360	360	89	90	75-125	1	20	
Chromium	ug/L	0.74	400	380	390	95	97	75-125	1	20	
Manganese	ug/L	22	400	390	400	93	94	75-125	1	20	
Sodium	mg/L	8.1	50	59	60	101	102	75-125	1	20	
Nickel	ug/L	0.13	400	360	360	89	91	75-125	1	20	
Vanadium	ug/L	11	400	410	420	100	101	75-125	1	20	
Zinc	ug/L	12	400	380	390	93	93	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1160015 1160016 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Iron	ug/L	430	25000	27000	27000	103	104	75-125	1	20	

QC Batch: WCAa/1155 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Prepared:

Associated Lab Samples: A1301338001, A1301338002, A1301338003, A1301338004, A1301338005, A1301338006, A1301338007,

METHOD BLANK: 1161114

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	10	10	U

LABORATORY CONTROL SAMPLE: 1161115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	660	660	100	75-125	

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QUALITY CONTROL DATA

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

SAMPLE DUPLICATE: 1161116 Original: A1301338002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	190	350	60	5	

QC Batch: DGMj/1190 Analysis Method: SW-846 6020

QC Batch Method: SW-846 3010A Prepared: 02/21/2013 03:30

Associated Lab Samples: A1301338001, A1301338002, A1301338003, A1301338004, A1301338005, A1301338006, A1301338007,

METHOD BLANK: 1161330

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Copper	ug/L	0.10	0.10	U
Arsenic	ug/L	0.36	0.36	U
Selenium	ug/L	2.2	2.2	U
Silver	ug/L	0.059	0.059	U
Antimony	ug/L	0.51	0.073	I

LABORATORY CONTROL SAMPLE & LCSD: 1161331 1161332

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Selenium	ug/L	100	110	110	111	115	80-120	4	20	
Silver	ug/L	100	86	86	86	86	80-120	1	20	
Antimony	ug/L	100	110	100	105	100	80-120	5	20	
Thallium	ug/L	100	98	97	98	97	80-120	1	20	
Lead	ug/L	100	100	98	100	98	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1161333 1161334 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Copper	ug/L	0	100	95	96	95	96	75-125	0	20	
Arsenic	ug/L	0.0082	100	100	100	104	104	75-125	0	20	
Selenium	ug/L	0	100	110	110	106	106	75-125	0	20	
Silver	ug/L	0	100	87	93	87	93	75-125	6	20	
Antimony	ug/L	2.6	100	110	100	104	100	75-125	4	20	

CERTIFICATE OF ANALYSIS

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QUALITY CONTROL DATA

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1161333 1161334 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Thallium	ug/L	0.27	100	100	100	101	101	75-125	0	20	
Lead	ug/L	0.47	100	100	100	103	103	75-125	0	20	

QC Batch: DGMj/1197 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 02/22/2013 07:15

Associated Lab Samples: A1301338001, A1301338002, A1301338003, A1301338004, A1301338005, A1301338006, A1301338007,

METHOD BLANK: 1162241

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Mercury	ug/L	0.014	0.014	U

LABORATORY CONTROL SAMPLE & LCSD: 1162242 1162243

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Mercury	ug/L	2	2.0	2.0	99	99	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1162244 1162245 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	ug/L	0.013	2	2.1	2.1	103	105	80-120	2	20	

QC Batch: WCAa/1178 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: A1301338001, A1301338002, A1301338003, A1301338004, A1301338005, A1301338006, A1301338007,

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QUALITY CONTROL DATA

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

METHOD BLANK: 1163435

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Fluoride	mg/L	0.075	0.075	U
Chloride	mg/L	0.78	0.78	U
Nitrate	mg/L	0.051	0.051	U

LABORATORY CONTROL SAMPLE: 1163436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Fluoride	mg/L	5	5.1	102	90-110	
Chloride	mg/L	50	48	96	90-110	
Nitrate	mg/L		5.0			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1163437 1163438 Original: A1301338001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	7.1	50	52	52	90	90	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1163439 1163440 Original: A1301338009

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Fluoride	mg/L	0.19	2.5	2.9	2.9	109	109	90-110	0	10	
Nitrate	mg/L			2.9	2.9				0	10	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

QUALITY CONTROL PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

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

V Method Blank Contamination

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1301338001	MW-10			EPA 350.1	WCAt/1717
A1301338002	MW-11			EPA 350.1	WCAt/1717
A1301338003	MW-2			EPA 350.1	WCAt/1717
A1301338004	MW-4			EPA 350.1	WCAt/1717
A1301338005	MW-4A			EPA 350.1	WCAt/1717
A1301338006	MW-4B			EPA 350.1	WCAt/1717
A1301338007	MW-6A			EPA 350.1	WCAt/1717
A1301338008	MW-8			EPA 350.1	WCAt/1717
A1301338009	MW-9A			EPA 350.1	WCAt/1717
A1301338010	EQ BLANK			EPA 350.1	WCAt/1717
A1301338001	MW-10	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338002	MW-11	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338003	MW-2	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338004	MW-4	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338005	MW-4A	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338006	MW-4B	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338007	MW-6A	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338008	MW-8	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338009	MW-9A	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338010	EQ BLANK	SW-846 3010A	DGMj/1178	SW-846 6010	ICPj/1116
A1301338001	MW-10			SM 2540C	WCAa/1155
A1301338002	MW-11			SM 2540C	WCAa/1155
A1301338003	MW-2			SM 2540C	WCAa/1155
A1301338004	MW-4			SM 2540C	WCAa/1155
A1301338005	MW-4A			SM 2540C	WCAa/1155
A1301338006	MW-4B			SM 2540C	WCAa/1155
A1301338007	MW-6A			SM 2540C	WCAa/1155
A1301338008	MW-8			SM 2540C	WCAa/1155
A1301338009	MW-9A			SM 2540C	WCAa/1155
A1301338010	EQ BLANK			SM 2540C	WCAa/1155
A1301338001	MW-10	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1301338002	MW-11	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338003	MW-2	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338004	MW-4	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338005	MW-4A	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338006	MW-4B	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338007	MW-6A	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338008	MW-8	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338009	MW-9A	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338010	EQ BLANK	SW-846 3010A	DGMj/1190	SW-846 6020	ICMj/1030
A1301338001	MW-10	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338002	MW-11	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338003	MW-2	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338004	MW-4	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338005	MW-4A	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338006	MW-4B	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338007	MW-6A	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338008	MW-8	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338009	MW-9A	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338010	EQ BLANK	SW-846 7470A	DGMj/1197	SW-846 7470A	CVAj/1035
A1301338001	MW-10			EPA 300.0	WCAa/1178
A1301338002	MW-11			EPA 300.0	WCAa/1178
A1301338003	MW-2			EPA 300.0	WCAa/1178
A1301338004	MW-4			EPA 300.0	WCAa/1178
A1301338005	MW-4A			EPA 300.0	WCAa/1178
A1301338006	MW-4B			EPA 300.0	WCAa/1178
A1301338007	MW-6A			EPA 300.0	WCAa/1178
A1301338008	MW-8			EPA 300.0	WCAa/1178
A1301338009	MW-9A			EPA 300.0	WCAa/1178
A1301338010	EQ BLANK			EPA 300.0	WCAa/1178
A1301338001	MW-10			DISRES	FLDa/1004
A1301338002	MW-11			DISRES	FLDa/1004

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1301338 Sumter Co Landfill 1st QTR MW

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1301338003	MW-2			DISRES	FLDa/1004
A1301338004	MW-4			DISRES	FLDa/1004
A1301338005	MW-4A			DISRES	FLDa/1004
A1301338006	MW-4B			DISRES	FLDa/1004
A1301338007	MW-6A			DISRES	FLDa/1004
A1301338008	MW-8			DISRES	FLDa/1004
A1301338009	MW-9A			DISRES	FLDa/1004
A1301338002	MW-11			DISRES	FLDa/1005
A1301338003	MW-2			DISRES	FLDa/1005
A1301338004	MW-4			DISRES	FLDa/1005
A1301338005	MW-4A			DISRES	FLDa/1005
A1301338006	MW-4B			DISRES	FLDa/1005
A1301338007	MW-6A			DISRES	FLDa/1005
A1301338008	MW-8			DISRES	FLDa/1005
A1301338009	MW-9A			DISRES	FLDa/1005
A1301338001	MW-10	DISRES	FLDa/	DISRES	FLDa/