SUMTER COUNTY (CLOSED) LANDFILL QUARTERLY GROUNDWATER MONITORING REPORT Quarter II (May) 2013

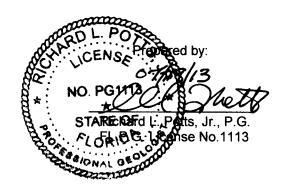
Prepared for:

SUMTER COUNTY
SOLID WASTE DEPARTMENT
SUMTER COUNTY, FLORIDA

Prepared by:

THE COLINAS GROUP, INC.

377 Maitland Avenue, Suite 2012 Altamonte Springs, Florida 32701



July 2013

THE COLINAS GROUP, INC.

HYDROGEOLOGISTS & ENGINEERS

July 19, 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 II (May) 2013 Groundwater Monitoring Report Sumter County Closed Class I Landfill Sumter County, Florida WACS_Facility ID #53008 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 the Electronic Data Deliverable of the report prepared by TCG entitled:

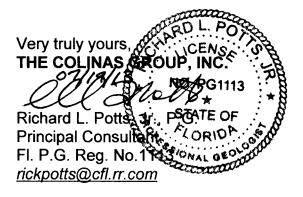
Sumter County (Closed) Landfill Quarterly Groundwater Monitoring Report, Quarter II (May) 2013

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

This report contains additional information not normally included, or required, in the quarterly monitoring report for this facility. This information, consisting of supplemental sampling sampling results two non-MPIS monitoring wells and certain site historical documentation, is included to address items of the Model Consent Order previously issued for the closed landfill by the Department's Southwest District Office.

Sumter County is currently working with the Southwest District Office to reach a successful conclusion to the Model Consent Order. TCG will submit a copy of this report directly to that office on behalf of Sumter County.

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



cc: Mr. Jackey Jackson (Sumter County)

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

Florida Department of Environmental Protection 3319 Maguire Boulevard, Sulta 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 Landfill	
Address 835 C.R. 529	
City Lake Panasoffkee	Zip 33538 County Sumter
Telephone Number (352)-793-3368	E-mail address jackey.jackson@sumtercountyft.gov
(2) WACS_Facility 53008	
(3) DEP Permit Number <u>22926-004-SF</u>	
(4) Authorized Representative's Name <u>Jackey Jackson</u>	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	
certify under penalty of law that I have personally exadocument and all attachments and that, based on my inquinformation, I believe that the information is true, accurate for submission of false information including the possibility	Ph.
Date Owner or All thorized	Representative's Signature
PART II QUALITY ASSURANCE REQUIREMENTS	
Sampling Organization Name & DOH # _The Colinas Grou	p, Inc. / 870148G/3
Analytical Lab Organization DOH # E53076 E84589 E8	2574
Lab Name Advanced Environmental Laboratories, Inc.	
Address 6601 Southport Parkway, Jacksonville, Florida 3	2216
Phone Number (904)-363-9350	
E-mail Address msantiago@aellab.com	

DER Form 62-520.900(2) Effective April 14, 1994

1/13/2009m

SUMTER COUNTY (CLOSED) LANDFILL GROUNDWATER MONITORING REPORT SUMTER COUNTY, FLORIDA Quarter II (May) 2013

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* * * * *

Sumter County (Closed) Landfill Quarterly Groundwater Monitoring Report Quarter II (May) 2013

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter II (May) 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 II 2013 sampling event at the Sumter County Landfill was completed during the period May 8 -10, 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 May 10, 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.

Monitoring well **MW-2**, installed in an at-grade manhole in pavement around the former citizen's drop-off area, was covered by new asphalt and could not be located.

Supplemental Sampling

Supplemental sampling was completed at two Contamination Assessment monitoring wells not part of the landfill's Ground Water Monitoring Plan (GWMP). Wells **MW-4C** and **MW-4D**, installed as piezometers in 2011 and sampled twice in 2012, were sampled on June 24, 2013 at the request of the FDEP in consideration of satisfaction of Contamination Assessment (CA) actions ordered by the Department as a component of a Model Consent Order (OGC #04-0131) issued in 2004.

Monitoring wells MW-4C and MW-4D were found damaged during the May 2013 sampling event, apparently by on-going construction activities in the western portion of the landfill property. The above-grade wellheads at MW-4C and MW-4D were damaged and not available for sampling.

Sumter County repaired the wellheads at MW-4C and MW-4D subsequent to the sampling event. TCG returned to the landfill on June 24, 2013 to redevelop the wells and collect groundwater samples for nitrate analyses.

RESULTS

Field Tested Parameters

Results of field testing completed at groundwater monitoring wells for the Quarter II 2013 sampling event are summarized in Table I. Field tests were completed in strict accordance with the FDEP SOP requirements.

pН

The field testing results indicate pH of groundwater in the uppermost aquifer was within the FDEP secondary standard (6.5 - 8.5 pH units) at seven (7) of the eight (8) 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 8.61 pH units. This well has produced pH values above 8.5 since sampling of the well began in Quarter II of 2006.

Fluid Temperature

Temperature of each water sample was measured in the field immediately following discharge into the flow cell used to accept flow from the purging pump. Temperature measurements of groundwater from the monitoring wells varied through a relatively narrow range of 23.77 C to 26.17 C.

Dissolved Oxygen

Dissolved oxygen (DO) exceeded the FDEP sampling guidance level of 20% saturation at three (3) of the eight (8) 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 133 umhos/cm to 915 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 eight (8) wells.

Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the Quarter II 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 one of the eight (8) monitoring wells at a concentration above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l. Aluminum was reported above the MCL at well **MW-9A** at 500 ug/l.

<u>lron</u>

Dissolved iron was detected at two (2) monitoring wells at concentrations above the FSDWS MCL of 300 ug/l. Iron was reported at 1,300 ug/l at well **MW-9A** and 340 ug/l at **MW-10**. Iron was not detected above the laboratory minimum detection limit of 38 ug/l at six (6) wells.

<u>Manganese</u>

Manganese was reported at a concentration above the FSDWS MCL of 50 ug/l at monitoring well **MW-9A** at 95 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 12 mg/l. Remaining detection/compliance wells reported nitrate values ranging from 0.49 mg/l (**MW-9A**) to 5.5 mg/l at Background Well **MW-6A**.

Total Dissolved Solids (TDS)

TDS concentration was reported nominally above the 500 mg/l FSDWS MCL at monitoring well **MW-9A** at 570 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 trace concentrations at each of the landfill monitoring wells, including background / upgradient wells MW-6A and MW-8.

Chloride concentrations reported for six (6) of the eight (8) 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-4A** and **MW-9A** (21 mg/l - 23 mg/l) appear slightly elevated compared to the other wells. The SDWS MCL for chloride in groundwater is 250 mg/l.

Gross alpha and Radium 226+228 are reported at concentrations elevated above background levels and approaching PDWS MCLs (15 pCi/l and 5 pCi/l, respectively) at wells MW-9A, MW-10 and MW-11.

Sodium appears slightly higher at monitoring wells **MW-4**, **MW-4A** and **MW-9A** (20 mg/l - 29 mg/l) as compared to background and other downgradient monitoring wells. The PDWS MCL for sodium is 160 mg/l.

<u>Supplemental Sampling for Nitrate</u>

Found damaged by adjacent site construction activities at the time of quarterly sampling, the wellheads at CA monitoring wells **MW-4C** and **MW-4D** were repaired by Sumter County to allow access for sample collection. TCG measured total apparent well depths before and after air-lift pumping, removing about one foot of sand and concrete/grout fragments from each of the wells prior to sampling on June 24, 2013.

Collected groundwater samples were analyzed in the laboratory for nitrate nitrogen. The laboratory report of analyses is included in Attachment 2. Nitrate results are reported as:

MW-4C 5.2 mg/l nitrate MW-4D 6.5 mg/l nitrate

Field sampling logs and quality control documents for the supplemental sampling are included in Attachments 3 and 4, respectively.

SUMMARY AND CONCLUSIONS

Chemical characteristics of groundwater monitored at the Sumter County Closed Landfill are reported for the Quarter II (May) 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 at three of the eight groundwater monitoring wells sampled, 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** outside the FSDWS pH range continues to be reported at well **MW-4B**

Aluminum was reported by the laboratory at concentrations slightly above the FSDWS MCL at detection monitoring well **MW-9A**. Aluminum has routinely been reported above the MCL in monitoring wells at the landfill, including facility 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 12 mg/l. The MCL for nitrate in groundwater is 10 mg/l. Monitoring wells **MW-4C** and **MW-4D**, installed as part of prior Contamination Assessment actions, reported nitrate below the MCL at 5.2 mg/l and 6.5 mg/l, respectively in groundwater samples collected on June 24, 2013.

Nitrate concentrations at wells MW-4C and MW-4D are reported slightly lower than two previous samples from both wells in the first half of 2012, with each of the six sample results less than the MCL and consistent with nitrate levels reported at Compliance Well MW-4 and Background Well MW-6A. Well MW-4 continues to report nitrate well 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 570 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.

Considering water quality results from this and prior routine monitoring events and corrective actions investigations at the landfill, we offer the following conclusions regarding compliance with regulatory requirements and future water quality monitoring activities conducted in accordance with the closed landfill's long-term-care permit:

- 1. With the lone exception of nitrate-nitrogen at well MW-4A, monitoring parameters exceeding respective MCLs are solely constituents regulated under the Florida Secondary Drinking Water Standards in Chapter 62-550, F.A.C. Monitoring parameters that have historically, from time to time, exceeded secondary drinking water standards and are reported above standards in the current quarterly sampling event include: Aluminum, iron, manganese and total dissolved solids.
- 2. The Sumter County Closed Landfill (SCCL) is an "existing installation" as defined in rule 62-520.200(10), F.A.C. and is exempt from compliance with secondary drinking water standards parameters outside the facilities' zone of discharge in accordance with the provisions of rule 62-520.520(1), F.A.C. Evidence of "existing installation" status is provided in Attachment 5 to this report in the form of a copy of an Operation Permit issued by the Florida Department of Environmental Regulation for the SCCL (formerly Sumter County Central Sanitary Landfill) on January 21, 1979. The permit includes provision of an approved groundwater monitoring plan as required by Operation Permit Condition No. 9. The permit predates the Monitoring Plan Deadline for landfills (May 1983) defined in rule 62-520.200(10)(b), F.A.C.
- Nitrate concentrations in samples from Contamination Assessment monitoring well MW-4A continue to be reported just above the Florida Primary Drinking Water Standards MCL. Well MW-4A was installed as part of prior Contamination Assessment actions to delineate the lateral extent of exceeding nitrate levels in groundwater beyond the landfill's zone of discharge boundary near the location of Compliance Well MW-4.

Nitrate concentrations at wells MW-4C and MW-4D are reported below the MCL, at levels consistent with background conditions, in three sampling events. Both wells, together with MW-4B, are located within the landfill property boundaries and down-gradient from wells MW-4 and MW-4A with respect to apparent groundwater flow direction.

4. Water quality test results for monitoring wells MW-4B, MW-4C and MW-4D demonstrate that groundwater containing MCL-exceeding levels of nitrate-nitrogen, reported previously at MW-4 and currently at MW-4A, has not migrated beyond the landfill property boundaries. This finding satisfies the objectives of Contamination Assessment investigations ordered by the FDEP and the final objectives of the Model Consent Order entered into by Sumter County and the FDEP in 2004.

RECOMMENDATIONS

- 1. A "Monitoring Only Proposal" is considered an appropriate conclusion to Contamination Assessment actions ordered for the landfill. This recommended proposal consists of the following primary components:
 - a). Monitoring wells MW-4C and MW-4D, constructed originally as piezometers but constructed to monitoring well specifications, should be formally incorporated into the Ground Water Monitoring Plan (GWMP) for the purpose of monitoring nitrate in groundwater downgradient from well MW-4A;
 - Monitoring wells MW-4 and MW-4B should be deactivated for water quality sampling and reassigned in the GWMP for use as piezometers for water level measurement only;
 - c). Monitoring constituents regulated under the Florida Secondary Drinking Water Standards should be deleted from the landfill's GWMP to include: Aluminum, chloride, iron, manganese and total dissolved solids.
- Upon acceptance of the Monitoring Only Proposal by the FDEP and conclusion of the Contamination Assessment process, we recommend that Sumter County request a finding of satisfaction and closure of the Model Consent Order (OGC #04-0131) issued for the SCCL;
- 3. We recommend that Sumter County request a minor modification of the landfill long-term care permit (Permit No. 22926-003-SF) from the FDEP Southwest District Office. Modification of the facility Ground Water Monitoring Plan (GWMP) is recommended to formally incorporate the recommended Monitoring Only Proposal as a means of demonstrating compliance with the nitrate nitrogen standard in groundwater upgradient of the landfill property boundaries.
- 4. While typically not exceeding MCLs, the constituents gross alpha and radium 226+228 are routinely reported at elevated levels in several monitoring wells. Sumter County should exercise due care in future sampling events to reduce sample turbidity levels to as low as practicable during sampling for these radionucleides.

* * * * *

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

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	рН	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	ns	ns	ns	ns	ns
MW-4	26.05	0.69	7.28	512	1.43
MW-4A	26.17	0.67	7.01	618	2.74
MW-4B	25.41	3.45	8.61	133	2.53
MW-6A	24.99	6.93	7.77	258	12.4
MW-8	23.77	4.75	7.3	345	0.25
MW-9A	25.31	0.25	6.5	915	11.8
MW-10	24.59	0.43	6.89	623	3.49
MW-11	24.99	0.96	6.28	346	5.88

Notes: 1). **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)

2). ns means well not sampled.

TABLE II

SUMMARY OF GROUNDWATER LEVELS SUMTER COUNTY (CLOSED) LANDFILL SUMTER COUNTY, FLÓRIDA Quarter II (May) 2013

Well No.	MP Elev. <u>1</u> / (ft. +NGVD)	Depth to Water <u>₂</u> (ft MP)	Groundwater Elevation (ft. +NGVD)
MW-1	70.10	27.84	42.26
MW-2	68.96	nm	
MW-2A	71.98	29.58	42.40
MW-4	70.33	27.96	42.37
MW-4A	75.49	33.16	42.33
MW-4B	73.49	31.23	42.26
MW-4C	70.88	nm	
MW-4D	73.35	nm	
MW-6A	77.48	34.78	42.70
MW-7	72.93	30.55	42.38
MW-8	68.63	25.51	43.12
MW-9	72.62	30.16	42.46
MW-9A	75.14	32.63	42.51
MW-10	68.14	25.60	42.54
MW-11	70.02	27.73	42.29

Notes: 1/ Measuring Point is top of PVC well casing.
2/ Water levels recorded on May 10, 2013.
3/ nm means not measured, wellheads damaged by area construction activities.

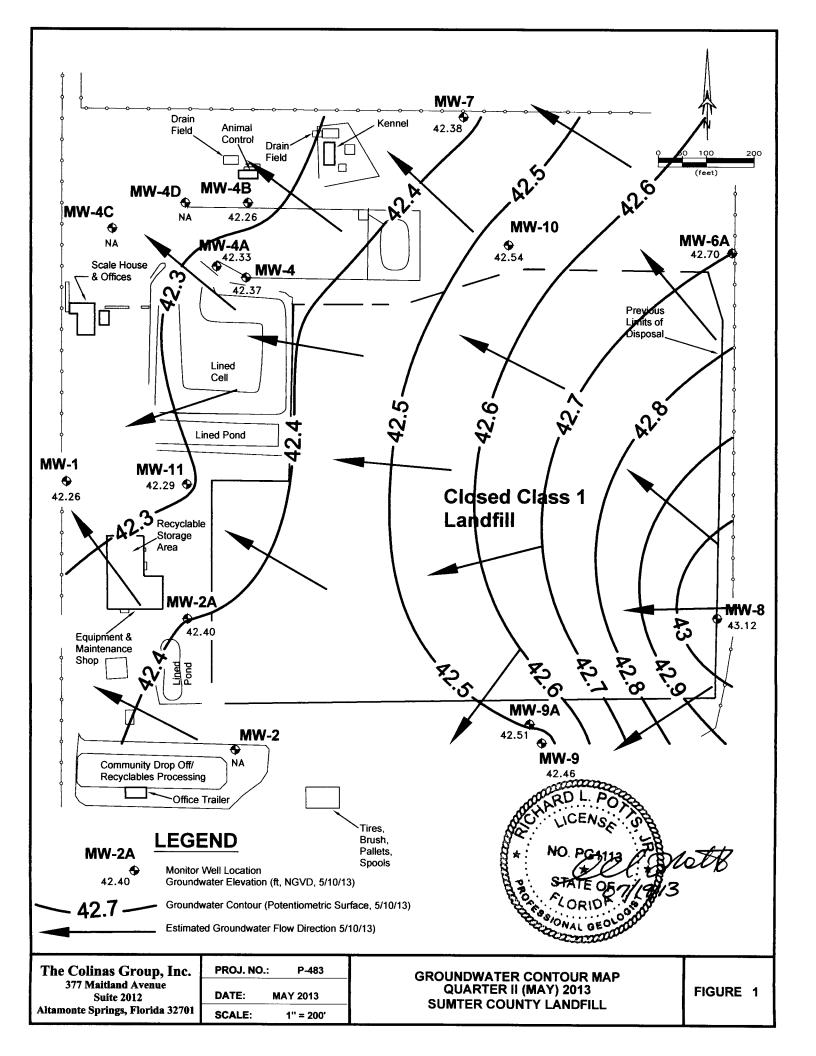
TABLE III SUMMARY OF LABORATORY RESULTS SUMTER COUNTY (CLOSED) LANDFILL QUARTER II (May) 2013

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	MCL
Ammonia	mg/l	ns	0.034	0.056	0.072	0.020	0.104	0.590	0.029	BDL	2.8
Aluminum	l/gn	ns	BDL	BDL	160	708	BDL	£00¢	BDL	BDL	200
Antimony	l/gn	ns	0.27	0.12	1.6	0.083	0.080	0.11	0.19	0.23	9
Cadmium	l/gn	su	BDL	BDL	BDL	108	BDL	1.2	0.52	2.4	5
Chloride	l/gm	ns	13	23	5.1	8.9	8.7	21	7.9	4.6	250
Chromium	l/gn	ns	0.70	1.1	2.4	6.4	3.0	4.3	BDL	1.6	100
Fluoride	l/gm	ns	0.16	BDL.	0.13	0.14	0.15	0.15	0.19	0.20	4
Gross Alpha	pCi/l	ns	5.7 ±1.4	2.6 ±1.2	4.5 ± 1.0	4.9 ± 1.3	3.8 ± 1.0	10.1±2.3	14.6 ± 2.1	10.8 ± 1.5	15
Iron	l/gn	ns	BDL	BDL	BDL	BDL	BDL	1,300*	340*	BDL	300
Lead	l/gn	ns	BDL	0.13 V	BDL	BDL	BDL	0.52 V	0.15 V	0.21 V	15
Manganese	l/ɓn	ns	5.1	2.2	BDL	0.78	BDL	95*	21	2.1	50
Mercury	l/gn	ns	BDL	BDL	BDL	BDL	BDL	0.10	BDL	0.037	2
Nitrate, as N	mg/l	ns	4.8	12	2.2	5.5	1.9	0.49	1.4	4.8	10
Ra226+Ra228	pCi/I	ns	2.7 ± 0.8	2.6±0.7	1.7 ± 0.7	2.0 ± 0.7	1.8 ± 0.7	5.2 ± 1.0	5.1 ± 0.9	5.3 ± 1.1	5
Silver	l/gn	ns	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	100
Sodium	mg/l	ns	29	21	8.4	2.9	4.8	20	7.4	8.4	160
TDS	mg/l	ns	330	380	100	160	220	570*	370	190	200
Thallium	ng/l	ns	0.13	0.27	BDL	0.075	BDL	0.19	0.068	0.14	2

Notes: 1). BDL means below laboratory minimum detection limit 2). **Bold lettering** indicates result exceeds MCL / 62-777, F.A.C. GCTL 3). *Sumter County Closed Landfill is exempt from compliance with Florida Secondary Drinking Water Standards MCLs 4). In means well not sampled 5). V indicates laboratory contamination

ATTACHMENT 1

Quarter II (May) 2013 Groundwater Contour Map



ATTACHMENT 2

Laboratory Analytical Reports
Field Sampling and Testing Logs



Phone: (407)937-1594 Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534001

Date Received: 05/09/13 14:17 Matrix:

Water

Sample ID: MW-4

Date Collected: 05/08/13 11:30

Sample Description:

Location:

Sample Description.			LC	cation:				
			·		Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	Ar	nalytical Metho	d: DISRES					
Conductance	512	umhos/cm		1			5/8/2013 11:10	Α^
Dissolved Oxygen	0.69	mg/L		1			5/8/2013 11:10	Α^
Groundwater Elevation	42.42	feet		1			5/8/2013 11:10	Α^
Temperature	26.05	°C		1			5/8/2013 11:10	Α^
Turbidity	1.43	NTU		1			5/8/2013 11:10	Α^
рН	7.28	pH unit		1			5/8/2013 11:10	Α^
METALS								
Analysis Desc: SW846 6010B	Pr	eparation Meth	nod: SW-84	6 3010A				
Analysis, Water	Ar	nalytical Method	d: SW-846	6010				
Aluminum	61	ug/L	U	1	200	61	5/13/2013 18:29	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/13/2013 18:29	J
Chromium	0.70	ug/L	ı	1	1.0		5/13/2013 18:29	J
Iron	38	ug/L	U	1	200		5/13/2013 18:29	J
Manganese	5.1	ug/L		1	1.0		5/13/2013 18:29	Ĵ
Sodium	29	mg/L		1	0.20	0.026	5/13/2013 18:29	J
Analysis Desc: SW846 6020B	Pr	eparation Meth	nod: SW-84	6 3010A				
Analysis, Total	An	alytical Method	d: SW-846	6020				
Antimony	0.27	ug/L	1	1	0.60	0.073	5/18/2013 02:21	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/18/2013 02:21	J
Silver	0.059	ug/L	Ū	1	0.30	0.059	5/18/2013 02:21	J
Thallium	0.13	ug/L	I	1	0.20	0.067		Ĵ
Analysis Desc: SW846 7470A	Pr	eparation Meth	nod: SW-84	6 7470A				
Analysis, Water	An	alytical Method	d: SW-846	7470A				
Mercury	0.014	ug/L	U	1	0.10	0.014	5/15/2013 12:48	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Method	d: EPA 300	.0				
Chloride	13	mg/L		1	7.5	0.78	5/9/2013 17:42	Α
Fluoride	0.16	mg/L	1	1	0.50	0.75	5/9/2013 17:42	A
Nitrate	4.8	mg/L	-	1	0.50	0.051	5/9/2013 17:42	Ā
Analysis Desc: Ammonia,E350.1,Water	Ап	alytical Method	d: EPA 350	.1				
Ammonia (N)	0 034	mg/L		1	0.010	0.0080	5/15/2013 11:28	G
	0.004	g/ =		•	0.010	0.0000	3/13/2013 11:28	G

Report ID: 262823 - 418522 Page 3 of 34

CERTIFICATE OF ANALYSIS



Altamonte Springs, FL 32701



Phone: (407)937-1594 Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534001 Date Received: 05/09/13 14:17 Matrix:

Sample ID: MW-4 Date Collected: 05/08/13 11:30

Sample Description:

Location:

Parameters		Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Des Solids,SM254	c: Tot Dissolved 40C	Ar	alytical Meth	od: SM 2540	С			***************************************	
Total Dissolve	ed Solids	330	mg/L		1	10	10	5/13/2013 09:44	Α
Lab ID:	A1303534002			Da	ite Received:	05/09/13 14:17	Matrix:	Water	
Sample ID:	MW-4A			Da	ite Collected:	05/08/13 12:40			

Sample Description:

Location:

				Adjusted	Adjusted		
Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
An	alytical Metho	od: DISRES					
618	umhos/cm		1			5/8/2013 12:23	Α^
0.67	mg/L		1			5/8/2013 12:23	Α^
42.61	feet		1			5/8/2013 12:23	Α^
26.17	°C		1			5/8/2013 12:23	Α^
2.74	NTU		1			5/8/2013 12:23	Α^
7.01	pH unit		1			5/8/2013 12:23	Α^
Pro	eparation Met	thod: SW-84	6 3010A				
An	alytical Metho	od: SW-846	6010				
61	ug/L	U	1	200	61	5/13/2013 18:53	J
0.32	ug/L	U	1	0.60	0.32	5/13/2013 18:53	Ĵ
1.1	ug/L		1	1.0	0.50	5/13/2013 18:53	J
38	ug/L	U	1	200	38	5/13/2013 18:53	Ĵ
2.2	ug/L		1	1.0	0.24	5/13/2013 18:53	Ĵ
21	mg/L		1	0.20	0.026	5/13/2013 18:53	J
Pre	eparation Met	thod: SW-84	6 3010A				
An	alytical Metho	od: SW-846	6020				
0.12	ug/L	1	1	0.60	0.073	5/18/2013 01:03	J
0.13	ug/L	I,V	1	0.70	0.076		J
0.059	ug/L	Ú	1	0.30	0.059	5/18/2013 01:03	J
0.27	ug/L		1	0.20	0.067	5/18/2013 01:03	J
	An 618 0.67 42.61 26.17 2.74 7.01 Pro An 61 0.32 1.1 38 2.2 21 Pro An 0.12 0.13	Analytical Methor 618 umhos/cm 0.67 mg/L 42.61 feet 26.17 °C 2.74 NTU 7.01 pH unit Preparation Methor Analytical Methor 61 ug/L 0.32 ug/L 1.1 ug/L 38 ug/L 2.2 ug/L 21 mg/L Preparation Methor Analytical Methor Analytical Methor 0.12 ug/L 0.13 ug/L 0.059 ug/L	Analytical Method: DISRES 618 umhos/cm 0.67 mg/L 42.61 feet 26.17 °C 2.74 NTU 7.01 pH unit Preparation Method: SW-84 Analytical Method: SW-84 61 ug/L U 0.32 ug/L U 1.1 ug/L 38 ug/L U 2.2 ug/L 21 mg/L Preparation Method: SW-84 Analytical Method: SW-84 O.12 ug/L U 0.13 ug/L U 0.14 Ug/L U 0.15 Ug/L U 0.15 Ug/L U 0.15 Ug/L U 0.15 Ug/L U	Analytical Method: DISRES 618	Analytical Method: DISRES 618	Results Units Qual DF PQL MDL	Results Units Qual DF PQL MDL Analyzed Analytical Method: DISRES 618 umhos/cm 1 5/8/2013 12:23 0.67 mg/L 1 5/8/2013 12:23 42.61 feet 1 5/8/2013 12:23 26.17 °C 1 5/8/2013 12:23 2.74 NTU 1 5/8/2013 12:23 7.01 pH unit 1 5/8/2013 12:23 Preparation Method: SW-846 3010A Analytical Method: SW-846 6010 61 5/13/2013 18:53 1.1 ug/L U 1 0.60 0.32 5/13/2013 18:53 1.1 ug/L U 1 200 38 5/13/2013 18:53 3.8 ug/L U 1 200 38 5/13/2013 18:53 2.2 ug/L 1 1.0 0.24 5/13/2013 18:53 2.1 mg/L 1 0.20 0.026 5/13/2013 18:53 2.1 mg/L 1

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534002

MW-4A

Date Received: 05/09/13 14:17 Matrix: Water

Date Collected: 05/08/13 12:40

Sample Description:

Sample ID:

Location:

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Analysis Desc: SW846 7470A	Pro	eparation Me	ethod: SW-84	6 7470A				
Analysis, Water	An	alytical Meth	od: SW-846	7470A				
Mercury	0.014	ug/L	U	1	0.10	0.014	5/15/2013 13:01	j
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Meth	od: EPA 300	.0				
Chloride	23	mg/L		1	7.5	0.78	5/9/2013 18:06	Α
Fluoride	0.075	mg/L	U	1	0.50	0.075	5/9/2013 18:06	Α
Nitrate	12	mg/L		2	1.0	0.10	5/9/2013 19:16	Α
Analysis Desc: Ammonia,E350.1,Water	An	alytical Meth	od: EPA 350	.1				
Ammonia (N)	0.056	mg/L		1	0.010	0.0080	5/15/2013 11:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	An	alytical Meth	od: SM 2540	C				
Total Dissolved Solids	380	mg/L		1	10	10	5/13/2013 09:44	Α

Lab ID: A1303534003

Report ID: 262823 - 418522

Date Received: 05/09/13 14:17 Matrix: Water

Sample ID: MW-4B Date Collected: 05/08/13 13:25

Sample Description:

Location:

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS						V		
Analysis Desc: FIELD - Conductance	An	alytical Method	: DISRES					
Conductance	133	umhos/cm		1			5/8/2013 13:08	Α^
Dissolved Oxygen	3.45	mg/L		1			5/8/2013 13:08	Α^
Groundwater Elevation	42.63	feet		1			5/8/2013 13:08	Α^
Temperature	25.41	°C		1			5/8/2013 13:08	Α^
Turbidity	2.53	NTU		1			5/8/2013 13:08	Α^
pH	8.61	pH unit		1			5/8/2013 13:08	Α^
METALS								
Analysis Desc: SW846 6010B	Pre	eparation Metho	od: SW-84	6 3010A				
Analysis, Water	An	alytical Method	: SW-846	6010				
Aluminum	160	ug/L	- 1	1	200	61	5/13/2013 19:17	J

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534003 Date Received: 05/09/13 14:17 Matrix: Water

Sample ID: MW-4B Date Collected: 05/08/13 13:25

Sample Description:

Location:

Cample Desi					Cation.				
_						Adjusted	Adjusted		
Parameters		Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Cadmium		0.32	ug/L	U	1	0.60	0.32	5/13/2013 19:17	J
Chromium		2.4	ug/L		1	1.0	0.50	5/13/2013 19:17	J
iron		38	ug/L	U	1	200	38	5/13/2013 19:17	J
Manganese		0.24	ug/L	U	1	1.0	0.24	5/13/2013 19:17	J
Sodium		8.4	mg/L		1	0.20	0.026	5/13/2013 19:17	J
Analysis Des Analysis, Tota	c: SW846 6020B		•	ethod: SW-84					
			-	od: SW-846	6020				
Antimony		0.16	ug/L	I	1	0.60	0.073	5/18/2013 02:30	J
Lead		0.076	ug/L	U	1	0.70	0.076	5/18/2013 02:30	J
Silver		0.059	ug/L	U	1	0.30	0.059	5/18/2013 02:30	J
Thailium		0.067	ug/L	U	1	0.20	0.067	5/18/2013 02:30	J
Analysis Des Analysis,Wat	c: SW846 7470A er	Pn	eparation Me	ethod: SW-84	6 7470A				
, ,		An	alytical Meth	od: SW-846	7470A				
Mercury		0.014	ug/L	U	1	0.10	0.014	5/15/2013 13:03	J
WET CHEMI									
Analysis Des	c: IC,E300.0,Water	An	alytical Meth	od: EPA 300	.0				
Chloride		5.1	mg/L	ı	1	7.5	0.78	5/9/2013 19:39	Α
Fluoride		0.13	mg/L	1	1	0.50	0.075	5/9/2013 19:39	Α
Nitrate		2.2	mg/L		1	0.50	0.051	5/9/2013 19:39	Α
Analysis Des	c: Ammonia,E350.1,Water	An	alytical Meth	od: EPA 350	.1				
Ammonia (N)		0.034	mg/L		1	0.010	0.0080	5/15/2013 11:28	G
Analysis Des Solids,SM254	c: Tot Dissolved IOC	An	alytical Meth	od: SM 2540	С				
Total Dissolve	ed Solids	100	mg/L		1	10	10	5/13/2013 09:44	Α
Lab ID:	A1303534004			Da	te Received:	05/09/13 14:17	Matrix: \	<i>N</i> ater	
Sample ID:	MW-6A			Da	te Collected:	05/09/13 12:35			
Sample Desc	ription:			Lo	cation:				
						Adjusted	Adjusted		
Parameters		Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab

FIELD PARAMETERS

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534004

MW-6A

Date Received: 05/09/13 14:17 Matrix:

Date Collected: 05/09/13 12:35

Sample Description:

Sample ID:

Location:

Sample Description.			LC	cation:				
					Adjusted	Adjusted		,
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Analysis Desc: FIELD - Conductance	An	alytical Method	: DISRES					
Conductance	258	umhos/cm		1			5/9/2013 12:18	Α^
Dissolved Oxygen	6.93	mg/L		1			5/9/2013 12:18	Α^
Groundwater Elevation	42.78	feet		1			5/9/2013 12:18	Α^
Temperature	24.99	°C		1			5/9/2013 12:18	Α^
Turbidity	12.4	NTU		1			5/9/2013 12:18	Α^
pH	7.77	pH unit		1			5/9/2013 12:18	Α^
METALS								
Analysis Desc: SW846 6010B	Pro	eparation Metho	od: SW-84	6 3010A				
Analysis, Water	An	alytical Method	: SW-846	6010				
Aluminum	61	ug/L	U	1	200	61	5/13/2013 19:22	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/13/2013 19:22	Ĵ
Chromium	6.4	ug/L		1	1.0	0.50	5/13/2013 19:22	Ĵ
Iron	38	ug/L	U	1	200	38		J
Manganese	0.78	ug/L	1	1	1.0	0.24	5/13/2013 19:22	J
Sodium	2.9	mg/L		1	0.20	0.026	5/13/2013 19:22	J
Analysis Desc: SW846 6020B	Pro	eparation Metho	od: SW-84	6 3010A				
Analysis, Total	An	alytical Method	: SW-846	6020				
Antimony	0.083	ug/L	ı	1	0.60	0.073	5/18/2013 02:40	J
Lead	0.076	ug/L	U	1	0.70	0.076	5/18/2013 02:40	Ĵ
Silver	0.059	ug/L	U	1	0.30	0.059		J
Thallium	0.075	ug/L	1	1	0.20	0.067	5/18/2013 02:40	J
Analysis Desc: SW846 7470A	Pro	eparation Metho	od: SW-84	6 7470A				
Analysis, Water	An	alytical Method	: SW-846	7470A				
Mercury	0.014	ug/L	U	1	0.10	0.014	5/15/2013 13:06	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Method	: EPA 300	.0				
Chloride	8.9	mg/L		1	7.5	0.78	5/9/2013 20:03	Α
Fluoride	0.14	mg/L	1	1	0.50	0.075	5/9/2013 20:03	A
Nitrate	5.5	mg/L		1	0.50	0.051	5/9/2013 20:03	A
Analysis Desc: Ammonia,E350.1,Water	An	alytical Method	: EPA 350	.1				
Ammonia (N)	0.020	mg/L		1	0.010	0.0080	5/15/2013 11:28	G

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID:

A1303534004

Date Received: 05/09/13 14:17

Matrix:

Water

Sample ID:

MW-6A

Date Collected: 05/09/13 12:35

Sample Description:

Location:

Parameters	Results Units	Qual DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Metho	d: SM 2540C				
Total Dissolved Solids	160 mg/L	1	10	10	5/13/2013 09:44	Α

Lab ID:

A1303534005

Date Received: 05/09/13 14:17 Matrix:

Sample ID: **MW-8** Date Collected: 05/09/13 10:00

Water

Sample Description:

Location:

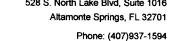
					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	An	alytical Method	I: DISRES					
Conductance	345	umhos/cm		1			5/9/2013 09:45	Α^
Dissolved Oxygen	4.75	mg/L		1			5/9/2013 09:45	Α^
Groundwater Elevation	43.75	feet		1			5/9/2013 09:45	Α^
Temperature	23.77	°C		1			5/9/2013 09:45	Α^
Turbidity	0.25	NTU		1			5/9/2013 09:45	Α^
pΗ	7.3	pH unit		1			5/9/2013 09:45	Α^
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Pro	eparation Meth	od: SW-84	6 3010A				
/ ulary olo, * vater	An	alytical Method	l: SW-846	6010				
Aluminum	61	ug/L	U	1	200	61	5/13/2013 19:27	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/13/2013 19:27	Ĵ
Chromium	3.0	ug/L		1	1.0	0.50	5/13/2013 19:27	Ĵ
Iron	38	ug/L	U	1	200	38	5/13/2013 19:27	J
Manganese	0.24	ug/L	U	1	1.0	0.24	5/13/2013 19:27	J
Sodium	4.8	mg/L		1	0.20	0.026	5/13/2013 19:27	J
Analysis Desc: SW846 6020B	Pro	eparation Meth	od: SW-84	6 3010A				
Analysis, Total	An	alytical Method	: SW-846	6020				
Antimony	0.080	ug/L	1	1	0.60	0.073	5/18/2013 02:50	j
Lead	0.076	ug/L	U	1	0.70	0.076	5/18/2013 02:50	Ĵ
Silver	0.059	ug/L	U	1	0.30	0.059	5/18/2013 02:50	Ĵ
Thallium	0.067	ug/L	U	1	0.20	0.067	5/18/2013 02:50	j

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534005 Date Received: 05/09/13 14:17 Matrix:

Sample ID: **MW-8** Date Collected: 05/09/13 10:00

Sample Description:

Location:

				_	Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Analysis Desc: SW846 7470A	Pn	eparation Me	ethod: SW-84	6 7470A	W			
Analysis,Water	An	alytical Meth	nod: SW-846	7470A				
Mercury	0.014	ug/L	U	1	0.10	0.014	5/15/2013 13:13	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Meth	od: EPA 300	.0				
Chloride	8.7	mg/L		1	7.5	0.78	5/9/2013 20:26	Α
Fluoride	0.15	mg/L	ı	1	0.50	0.075	5/9/2013 20:26	Α
Nitrate	1.9	mg/L		1	0.50	0.051	5/9/2013 20:26	Α
Analysis Desc: Ammonia,E350.1,Water	An	alytical Meth	od: EPA 350	.1				
Ammonia (N)	0.104	mg/L		1	0.010	0.0080	5/15/2013 11:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	An	alytical Meth	od: SM 2540	C				
Total Dissolved Solids	220	mg/L		1	10	10	5/13/2013 09:44	Α

Lab ID:

Sample ID:

A1303534006

MW-9A

Date Received: 05/09/13 14:17 Matrix: Water

Date Collected: 05/09/13 11:32

Sample Description:

Location:

				oution.				
Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	An	nalytical Method	: DISRES					
Conductance	915	umhos/cm		1			5/9/2013 11:18	Α^
Dissolved Oxygen	0.25	mg/L		1			5/9/2013 11:18	Α^
Groundwater Elevation	41.64	feet		1			5/9/2013 11:18	Α^
Temperature	25.31	°C		1			5/9/2013 11:18	Α^
Turbidity	11.8	NTU		1			5/9/2013 11:18	Α^
pH	6.5	pH unit		1			5/9/2013 11:18	Α^
METALS								
Analysis Desc: SW846 6010B	Pro	eparation Metho	od: SW-84	6 3010A				
Analysis, Water	An	alytical Method	: SW-846	6010				
Aluminum	500	ug/L		1	200	61	5/13/2013 19:31	J

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534006

Date Received: 05/09/13 14:17 Matrix:

Sample ID: MW-9A

Date Collected: 05/09/13 11:32

Sample Description:

Location:

Campic Description.				Cation.				
					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Cadmium	1.2	ug/L		1	0.60	0.32	5/13/2013 19:31	J
Chromium	4.3	ug/L		1	1.0	0.50	5/13/2013 19:31	J
Iron	1300	ug/L		1	200	38		J
Manganese	95	ug/L		1	1.0		5/13/2013 19:31	J
Sodium	20	mg/L		1	0.20	0.026	5/13/2013 19:31	J
Analysis Desc: SW846 6020B Analysis,Total		•	ethod: SW-84					
A matters are a		•	hod: SW-846					
Antimony	0.11		l • • • • •	1	0.60	0.073		J
Lead	0.52	ug/L	I,V	1	0.70		5/18/2013 03:00	J
Silver	0.059	ug/L	U	1	0.30	0.059		J
Thallium	0.19	ug/L	1	1	0.20	0.067	5/18/2013 03:00	J
Analysis Desc: SW846 7470A Analysis,Water	Pr	eparation Me	ethod: SW-84	6 7470A				
ru idiyələ, v valcı	An	alytical Metl	hod: SW-846	7470A				
Mercury	0.10	ug/L		1	0.10	0.014	5/15/2013 13:16	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Metl	hod: EPA 300	0.0				
Chloride	21	mg/L		1	7.5	0.78	5/9/2013 20:49	Α
Fluoride	0.15	mg/L	1	1	0.50	0.075	5/9/2013 20:49	Α
Nitrate	0.49	mg/L	1	1	0.50	0.051	5/9/2013 20:49	Α
Analysis Desc: Ammonia,E350.1,Water	An	alytical Metl	nod: EPA 350	.1				
Ammonia (N)	0.590	mg/L		1	0.010	0.0080	5/15/2013 11:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	An	alytical Met	hod: SM 2540	С				
Total Dissolved Solids	570	mg/L		1	10	10	5/13/2013 09:44	Α
Lab ID: A1303534007			Da	ate Received:	05/09/13 14:17	Matrix:	Water	
Sample ID: MW-10			Da	ate Collected:	05/09/13 09:25			
Sample Description:			Lo	cation:				
					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab

FIELD PARAMETERS

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ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534007

Date Received: 05/09/13 14:17 Matrix:

Sample ID: MW-10 Date Collected: 05/09/13 09:25

Sample Description:

Location:

Sample Description.			LO	cation:				
					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Analysis Desc: FIELD - Conductance	An	nalytical Method:	DISRES					
Conductance	623	umhos/cm		1			5/9/2013 09:10	Α^
Dissolved Oxygen	0.43	mg/L		1			5/9/2013 09:10	Α^
Groundwater Elevation	42.18	feet		1			5/9/2013 09:10	Α^
Temperature	24.59	°C		1			5/9/2013 09:10	Α^
Turbidity	3.49	NTU		1			5/9/2013 09:10	Α^
pH	6.89	pH unit		1			5/9/2013 09:10	Α^
METALS								
Analysis Desc: Tot Dissolved Solids,SM2540C	An	nalytical Method:	SM 2540	C				
Total Dissolved Solids	370	mg/L		1	10	10	5/13/2013 09:44	Α
Analysis Desc: SW846 6010B	Pro	eparation Metho	d: SW-84	6 3010A				
Analysis,Water	An	nalytical Method:	SW-846	6010				
Aluminum	61	ug/L	U	1	200	61	5/13/2013 19:36	J
Cadmium	0.52	ug/L	1	1	0.60	0.32	5/13/2013 19:36	J
Chromium	0.50	ug/L	U	1	1.0	0.50		J
Iron	340	ug/L		1	200	38	5/13/2013 19:36	J
Manganese	21	ug/L		1	1.0	0.24		J
Sodium	7.4	mg/L		1	0.20	0.026		J
Analysis Desc: SW846 6020B	Pr	eparation Metho	d: SW-84	6 3010A				
Analysis, Total	An	nalytical Method:	SW-846	6020				
Antimony	0.19	ug/L	ı	1	0.60	0.073	5/18/2013 03:10	J
Lead	0.15	ug/L	I,V	1	0.70	0.076	5/18/2013 03:10	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/18/2013 03:10	J
Thallium	0.068	ug/L	I	1	0.20	0.067	5/18/2013 03:10	J
Analysis Desc: SW846 7470A	Pro	eparation Metho	d: SW-84	6 7470A				
Analysis, Water	An	alytical Method:	SW-846	7470A				
Mercury	0.014	ug/L	U	1	0.10	0.014	5/15/2013 13:19	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Method:	EPA 300	.0				
Chloride	7.9	mg/L		1	7.5	0.78	5/9/2013 21:13	Α
Fluoride	0.19	mg/L	i	1	0.50	0.075	5/9/2013 21:13	Α
Nitrate	1.4	mg/L		1	0.50	0.051	5/9/2013 21:13	Α

Report ID: 262823 - 418522 Page 11 of 34

CERTIFICATE OF ANALYSIS





Phone: (407)937-1594 Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID:

A1303534007

Sample ID: MW-10 Date Received: 05/09/13 14:17

Matrix:

Water

Date Collected: 05/09/13 09:25

Sample Description:

Location:

Parameters	Results Units	Qual DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Ammonia,E350.1,Water	Analytical Meth	od: EPA 350.1				
Ammonia (N)	0.029 mg/L	1	0.010	0.0080	5/15/2013 11:28	G

Lab ID:

A1303534008

Date Received: 05/09/13 14:17

Matrix:

Sample ID:

MW-11

Date Collected: 05/08/13 10:10

Water

Sample Description:

Location:

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: FIELD - Conductance	An	alytical Metho	d: DISRES					
Conductance	346	umhos/cm		1			5/8/2013 09:47	Α^
Dissolved Oxygen	0.96	mg/L		1			5/8/2013 09:47	Α^
Groundwater Elevation	42.51	feet		1			5/8/2013 09:47	Α^
Temperature	24.99	°C		1			5/8/2013 09:47	Α^
Turbidity	5.88	NTU		1			5/8/2013 09:47	A^
pH	6.28	pH unit		1			5/8/2013 09:47	Α^
METALS								
Analysis Desc: SW846 6010B Analysis,Water	Pro	eparation Met	hod: SW-84	6 3010A				
rulary 515, viator	An	alytical Metho	xd: SW-846	6010				
Aluminum	61	ug/L	U	1	200	61	5/13/2013 19:41	J
Cadmium	2.4	ug/L		1	0.60	0.32	5/13/2013 19:41	J
Chromium	1.6	ug/L		1	1.0	0.50	5/13/2013 19:41	J
Iron	38	ug/L	U	1	200	38	5/13/2013 19:41	J
Manganese	10	ug/L		1	1.0	0.24	5/13/2013 19:41	J
Sodium	8.4	mg/L		1	0.20	0.026	5/13/2013 19:41	J
Analysis Desc: SW846 6020B	Pro	eparation Met	hod: SW-84	6 3010A				
Analysis, Total	An	alytical Metho	od: SW-846	6020				
Antimony	0.23	ug/L	1	1	0.60	0.073	5/18/2013 03:40	J
Lead	0.21	ug/L	I,V	1	0.70	0.076	5/18/2013 03:40	Ĵ
Silver	0.059	ug/L	Ü	1	0.30	0.059	5/18/2013 03:40	J
Thallium	0.14	ug/L	1	1	0.20	0.067	5/18/2013 03:40	J

Report ID: 262823 - 418522

Page 12 of 34

CERTIFICATE OF ANALYSIS





Phone: (407)937-1594 Fax: (407)937-1597

ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID:

A1303534008

Date Received: 05/09/13 14:17

Matrix:

Water

Sample ID:

MW-11

Date Collected: 05/08/13 10:10

Sample Description:

Location:

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Analysis Desc: SW846 7470A	Pn	eparation Me	ethod: SW-84	6 7470A				
Analysis,Water	An	alytical Meth	nod: SW-846	7470A				
Mercury	0.037	ug/L	ı	1	0.10	0.014	5/15/2013 13:21	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	An	alytical Meth	nod: EPA 300	0.0				
Chloride	4.6	mg/L	1	1	7.5	0.78	5/9/2013 21:36	Α
Fluoride	0.20	mg/L	ı	1	0.50	0.075	5/9/2013 21:36	Α
Nitrate	4.8	mg/L		1	0.50	0.051	5/9/2013 21:36	Α
Analysis Desc: Ammonia,E350.1,Water	An	alytical Meth	od: EPA 350	.1				
Ammonia (N)	0.0080	mg/L	U	1	0.010	0.0080	5/15/2013 11:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	An	alytical Meth	od: SM 2540	C				
Total Dissolved Solids	190	mg/L		1	10	10	5/13/2013 09:44	Α

Lab ID:

A1303534009

Date Received: 05/09/13 14:17

Matrix:

Water

Sample ID: Eq Blank Date Collected: 05/08/13 11:55

Sample Description:

Location:

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS			400.		1 42	IVIDE	7 ti diy20d	
Analysis Desc: SW846 6010B	Pn	eparation Me	thod: SW-84	6 3010A				
Analysis, Water	An	alytical Meth	od: SW-846	6010				
Aluminum	61	ug/L	U	1	200	61	5/13/2013 19:46	J
Cadmium	0.32	ug/L	U	1	0.60	0.32	5/13/2013 19:46	Ĵ
Chromium	0.50	ug/L	U	1	1.0	0.50	5/13/2013 19:46	Ĵ
Iron	38	ug/L	U	1	200	38	5/13/2013 19:46	J
Manganese	0.49	ug/L	1	1	1.0	0.24	5/13/2013 19:46	J
Sodium	0.057	mg/L	1	1	0.20	0.026	5/13/2013 19:46	J
Analysis Desc: SW846 6020B	Pn	eparation Me	thod: SW-84	6 3010A				
Analysis, Total	An	alytical Meth	od: SW-846	6020				
Antimony	0.092	ug/L	ſ	1	0.60	0.073	5/18/2013 03:50	J

Report ID: 262823 - 418522

Page 13 of 34

CERTIFICATE OF ANALYSIS





Phone: (407)937-1594 Fax: (407)937-1597

Advanced Environmental Laboratories, Inc.

ANALYTICAL RESULTS

Workorder: A1303534 Sumter Co. Landfill

Lab ID: A1303534009 Date Received: 05/09/13 14:17 Matrix:

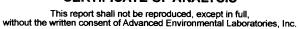
Sample ID: Eq Blank Date Collected: 05/08/13 11:55

Sample Description:

Location:

					Adjusted	Adjusted		
Parameters	Results	Units	Qual	DF	PQL	MDL	Analyzed	Lab
Lead	0.076	ug/L	U	1	0.70	0.076	5/18/2013 03:50	J
Silver	0.059	ug/L	U	1	0.30	0.059	5/18/2013 03:50	J
Thallium	0.067	ug/L	U	1	0.20	0.067	5/18/2013 03:50	J
Analysis Desc: SW846 7470A	Pr	eparation Me	ethod: SW-84	16 7470A				
Analysis, Water	An	alytical Meth	od: SW-846	7470A				
Mercury	0.014	ug/L	U	1	0.10	0.014	5/15/2013 13:23	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Ar	alytical Meth	od: EPA 300	0.0				
Chloride	0.78	mg/L	U	1	7.5	0.78	5/9/2013 22:00	Α
Fluoride	0.075	mg/L	U	1	0.50	0.075	5/9/2013 22:00	Α
Nitrate	0.14	mg/L	I	1	0.50	0.051	5/9/2013 22:00	Α
Analysis Desc: Ammonia,E350.1,Water	Аг	nalytical Meth	od: EPA 350).1				
Ammonia (N)	0.028	mg/L		1	0.010	0.0080	5/15/2013 11:28	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Ar	nalytical Meth	nod: SM 2540	С				
Total Dissolved Solids	10	mg/L	U	1	10	10	5/13/2013 09:44	Α

Report ID: 262823 - 418522 Page 14 of 34







DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client Client/Field ID: A1303534001

MW - 4

Sample Collection:

5-8-13/1130

Lab ID No:

13.3677

Lab Custody Date:

5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	5.7 ± 1.4	05-15-13/0800	EPA 900.0	1.2
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.7 ± 0.8	Calc	Calc	
Radium-226	pCi/l	1.7 ± 0.8	05-18-13/1115	EPA 903.0	0.7
Radium-228	pCi/l	1.0 U ± 0.7	05-19-13/0940	EPA Ra-05	1.0

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

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

James W. Hayes Laboratory Manager

James W Hager

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

LARGRATORY SERVICES

DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client Client/Field ID: A1303534002

MW-4A Sample Collection: 5-8-13/1240

Lab ID No: 13.3678

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	2.6 ± 1.2	5-21-13/0900	EPA 900.0	1.4
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.6 ± 0.7	Calc	Calc	
Radium-226	pCi/l	1.6 ± 0.7	05-18-13/1115	EPA 903.0	0.6
Radium-228 Alpha Standard: Th-230	pCi/l	1.0 U ± 0.7	05-19-13/0940	EPA Ra-05	1.0

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

James W Hages

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

LARORATORY SERVICES

DEP COMPQAP # 870251

DOH Certification #E84025

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client

Client/Field ID: A1303534003

MW-4B

Sample Collection: 5-8-13/1325

Lab ID No: 13.3679

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	4.5 ± 1.0	05-17-13/0800	EPA 900.0	0.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.7 ± 0.7	Calc	Calc	
Radium-226	pCi/l	0.7 U ± 0.5	05-18-13/1115	EPA 903.0	0.7
Radium-228 Alpha Standard: Th-230	pCi/l	1.0 U ± 0.7	05-19-13/0940	EPA Ra-05	1.0

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

James W Hages

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

LARDRAYORY SERVICES

DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client Client/Field ID: A1303534004 MW-6A

Sample Collection: 5-9-13/1235

Lab ID No: 13.3680

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	4.9 ± 1.3	05-17-13/0800	EPA 900.0	1.1
Combined Radium (Radium-226 + Radium 228)	pCi/l	2.0 ± 0.7	Calc	Calc	
Radium-226	pCi/l	1.0 I ± 0.6	05-18-13/1115	EPA 903.0	0.6
Radium-228 Alpha Standard: Th-230	pCi/l	1.0 U ± 0.7	05-19-13/0940	EPA Ra-05	1.0

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

James W Hages

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

LARGRATORY SERVICES

DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1303534005
MW-8
Sample Collection: 5-9-13/1000

Lab ID No: 13.3681

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	3.8 ± 1.0	05-17-13/0800	EPA 900.0	0.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.8 ± 0.7	Calc	Calc	
Radium-226	pCi/l	0.8 I ± 0.5	05-18-13/1115	EPA 903.0	0.6
Radium-228 Alpha Standard: Th-230	pCi/l	1.0 U ± 0.7	05-19-13/0940	EPA Ra-05	1.0

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

James W Hager

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



DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client

Client/Field ID: A1303534006

MW-9A Sample Collection: 5-9-13/1132

Lab ID No: 13.3682

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	10.1 ± 2.3	05-17-13/0800	EPA 900.0	1.8
Combined Radium (Radium-226 + Radium 228)	pCi/l	5.2 ± 1.0	Calc	Calc	
Radium-226	pCi/l	4.2 ± 1.0	05-18-13/1115	EPA 903.0	0.5
Radium-228	pCi/l	1.0 U ± 0.7	05-19-13/0940	EPA Ra-05	1.0

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

James W Hages

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

DOH Certification #E84025 **DEP COMPQAP # 870251**

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client Client/Field ID:

A1303534007

MW-10

Sample Collection: 5-9-13/0925

Lab ID No: 13.3683

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	14.6 ± 2.1	05-17-13/0800	EPA 900.0	1.2
Combined Radium (Radium-226 + Radium 228)	pCi/l	5.1 ± 0.9	Calc	Calc	
Radium-226	pCi/l	3.5 ± 0.9	05-18-13/1115	EPA 903.0	0.7
Radium-228 Alpha Standard: Th-230	pCi/l	1.6 I ± 0.8	05-19-13/0940	EPA Ra-05	1.0

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

James W Hages

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

LABORATORY SERVICES

DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client
Client/Field ID: A1303534008
MW-11
Sample Collection: 5-8-13/1010

Lab ID No: 13.3684

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	10.8 ± 1.5	05-17-13/0800	EPA 900.0	1.0
Combined Radium (Radium-226 + Radium 228)	pCi/l	5.3 ± 1.1	Calc	Calc	1.0
Radium-226	pCi/l	4.0 ± 1.1	05-19-13/1245	EPA 903.0	0.9
Radium-228	pCi/l	1.3 I ± 0.9	05-19-13/0940	EPA Ra-05	1.0

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

James W Hager

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

GRATORY SERVICES

DOH Certification #E84025 DEP COMPQAP # 870251

Report Date: May 21, 2013

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

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

Attn: Myrna Santiago

Field Custody: Client Client/Field ID: A1303534009

EO.BLANK

Sample Collection: 5-8-13/1155

Lab ID No: 13.3685

Lab Custody Date: 5-10-13/0940

Sample description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Gross Alpha	pCi/l	1.2 ± 0.6	05-17-13/0800	EPA 900.0	0.7
Combined Radium (Radium-226 + Radium 228)	pCi/l	1.8 ± 0.8	Calc	Calc	1.0
Radium-226	pCi/l	0.8 U ± 0.4	05~19-13/1245	EPA 903.0	0.8
Radium-228	pCi/l	1.0 U ± 0.8	05-19-13/1135	EPA Ra-05	1.0

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

James W Hages

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:	<u> </u>		NAME:	ale Clauf
PROJECT	and the second s			· · · · · · · · · · · · · · · · · · ·
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	MW-48	21,22		······································
	MW-40	NA	Wall is C. H. Co. L.	1 -03 6 la Na
	MW-40	(25.80)	Well is full of sanda Well is broken Effici	7 2 8 13, TA
	1110) - 60 A	34.78	West B Orolla E(T)	TISC NG COURT
	MW-7	30.55		
<u> </u>	MW-8	25.51		· · · · · · · · · · · · · · · · · · ·
	MW-9	30.16		
	MW-9A	32.63'		
	MW-10	25.60		
	MW-1/	27,73"	THE CO. LEWIS CO. LEWIS CO. LEWIS CO.	
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SITE	umter Cou					SITE					
NAME: S	umter Cou	inty Land	nu	041471	ID: MW-2	OCATION:	Sumter	ville, FL		1-1	
TILLE NO.	10100-2			SAMPLE		SING DA	T A		DATE:	5/8//	<u> </u>
WELL 2"	PVC	TUBING 3/8	3"	WELL SCE	REEN INTER		STATIC D	EDTU	DUDOE DUBO	/ /	
DIAMETER (inches):	DIAMETER (i	nches).	DEPTH:	feet to	feet	TO WATE	R (feet)	PURGE PUMP 'OR BAILER: P		
WELL VOLU only fill out if	ME PURGE: 1	WELL VOLU	ME = (TOTA	L WELL DEPT	H - STAT	IC DEPTH TO	WATER)	X WELL CAP	ACITY		·
	,		= (31.92'	feet –		foot) X	gallons/foo		
EQUIPMENT	VOLUME PUR	GE: 1 EQUIP	MENT VOL. =	PUMP VOLU	ME + (TUBI	NG CAPACIT	Y X		TH) + FLOW CELL	. VOLUME	gallons
(only fill out it		1 Equip V	ol =	.02 gall	ons+(.	006 gallon	-# V		405		
	P OR TUBING		FINAL PUMF	OR TUBING	UIST(.	PURGING	S/100E X	feet PURGIN		allons = TOTAL VOLUN	gallons
DEPTH IN W	ELL (feet):	CUMUL.	DEPTH IN W	ELL (feet):		INITIATE		ENDED		PURGED (gallo	
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (uS/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
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12/571 - 0.40-									 	-	
TUBING INS	CITY (Gallons P DE DIA. CAPA(erFoot): 0.79 CITY (Gal./Ft.)	5" = 0.02;	1" = 0.04; 1 06: 3/16" =	.25" = 0.06; 0.0014	2" = 0.16;		7; 4" = 0.65; 0.004: 3/8" =			= 5.88
						LING DA		0.004, 3/6 -	0.000, 1/2 =	0.010; 5/8"	= 0.016
	(PRINT) / AFF /tor, Colina		Inc.	MPLER(S) SIG	NATURES			SAMPLING INFLIATED AT:		SAMPLING ENDED AT:	-
PUMP OR TU DEPTH IN WI				MPLS PUMP		2000		TUBING		CHOLD AT.	·
				DW RATE (mL			R SIZE:	MATERIAL CO	DE: PE		
LIETO DECO	NTAMINATION:		Filt	ration Equipme					DUPLICATE:	Y N	
	SAMPLE CO SPECIFIC				SAME	LE PRESER	/ATION		INTENDED		
SAMPLE ID	# CONTAINE	MATERI AL	VOLUME	PRESERVA		TOTAL VOL		FINAL	ANALYSIS AND	VOR EQ	AMPLING WIPMENT
CODE	RS	CODE	VOLUME	USED	ADI	DED IN FIELD	(mL)	pH	METHOD		CODE
MW-2	2	PE	1 Ltr	HN03	3	None		_	GrossAlpha,		APP
46	11	PE	250 mL	H2S04	4	None			RA226RA228 Total Ammo	nia	APP
	11	PE_	250 mL	HN03		None			Metals		APP
REMARKS:	1	PE	500 mL	None		None		-	Chloride,Fluor Nitrate, TDS	ride,	APP
	Vo :Hi	asp	Sa "	usp +	le_	. ~	C	Ne11	1 75	COU	'ered
2) Pac	d a graduated 5	ice immediate	ly upon collec	tion	volumes	· · · · · · · · · · · · · · · · · · ·					
MATERIAL CO SAMPLING/PI		G = Amber Gl		Clear Glass;	PE = Poly		PP = Polypro		ilicone; T = Tefi	on; O = Othe	r (Specify)
EQUIPMENT (P = After Peris PP = Reverse F		B = Bailer; c Pump;	,	Bladder Pump Method (Tubi		= Electric Subm Prain); VT =	ersible Pump; Vacuum Trap;	PP = Peristaltic O = Other (S)	

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

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

SITE NAME:	Sumter Co	untu l and	u c in		SITE				···	
WELL NO:		unity Land	11111	SAMPLE ID: M	LOCATION:	Sumten	ville, FL		10/10	····
WELL NO.	10100-4				RGING DA	TA		DATE: 5/	18/13	
WELL 2"	'PVC	TUBING _3	18 AL 14	WELL SCREEN IN			ЕРТН а 7.94	PURGE PUMP TY		
DIAMETER	(inches):	DIAMETER (inches):	DEPTH: feet	to feet	TO WATE	R (feet):	OP BAH ED - FO		P
only fill out	LUME PURGE:	1 WELL VOLU	JME = (TOTAL	LWELL DEPTH - S	TATIC DEPTH T	O WATER)	X WELL CAP	ACITY		<u></u>
1 -		Dest 1/0	- (36.35' feet -	279	✓ feet	× .16	gallons/foot	- 120	(Challons
EQUIPMEN	NT VOLUME PU t if applicable)	RGE: 1 EQUIF	PMENT VOL. =	36.35' feet PUMP VOLUME + (1	UBING CAPACI	TY X	TUBING LENG	TH) + FLOW CELL V	OLUME	() Egalions
(Giny in our	in applicable)	1 Equip \	/ol =	= .02 gallons + (.006 gailo	ns/fnot Y	fee)+ .125 ga	Hana -	
	MP OR TUBINO	3 .	FINAL PUMP	OR TUBING	- PURGIN	G	PURGIN		ilons = OTAL VOLUM	gallons E
DEPTHIN	WELL (feet):	CUMUL.	DEPTH IN W	DEPTH	9-5 INITIATI	DAT: 10	ENDED	AT: //(0 P	URGED (gallo	ins):/. Jd
TIME	VOLUME	VOLUME PURGED	PURGE RATE	TO PH	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	(gallons)	(gallons)	(gpm)	WATER (standa (feet) units)		(uS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1106	1.36	1.36	· 1	28-03).2		5.06	0.88	1.05	Clear	None
1108	.08	1.44	1.04	26.03 7.05		509	076	1.09	Clear	None
1110	.00	1.30	104	38-03 7.2	8 26.05	219	0.69	1.45	Clear	None
			<u> </u>							
			-							
			1				<u></u>			
WELLCAR	ACITY (Gallons	D FN- 03	FII - 0 00							
TUBING IN	SIDE DIA. CAP	ACITY (Gal./Ft.): 1/8" = 0.02; 1): 1/8" = 0.00	1" = 0.04; 1.25" = (06; 3/16" = 0.0014;			,	5" = 1.02; 6" = = 0.006; 1/2" = 0.		= 5.88 = 0.016
				SAN	APLING DA				310, 310	1/20
Dale Cla	BY (PRINT) / AF Bytor, Colis	FILIATION:	Inc. SAI	MPLER(S) SIGNATUR	RES:		SAMPLING	////	SAMPLING	NACH
PUMP OR 1		ias Gioup		MPLE PUMP	45	<u> </u>	INITIATED AT		ENDED AT:	//2000
	WELL (feet):	عهرر	200	OW RATE (ml. per min	/ nute): < 250 i	mL	TUBING MATERIAL CO	DE: PE		
FIELD DEC	ONTAMINATIO	N: (Ŷ) N	FIE	LD-FILTERED: Y A	N FILT	ER SIZE: _	hru	DUPLICATE:	YN	~
		・ ピノール	ant 4	T	·····			DOFEICATE.	Y CN	
4."	SPECIF	MATERI	<u> </u>	S	AMPLE PRESER	EVATION		INTENDED		MPLING
SAMPLE II	CONTAIN	IE AL	VOLUME	PRESERVATIVE USED	TOTAL VO		FINAL	ANALYSIS AND/O METHOD		UIPMENT CODE
MW-4	RS	CODE			ADDED IN FIEL	D (ML)	pH			
	2	PE	1 Ltr	HN03	None			GrossAlpha, RA226RA228	APP.	ESP OC
	1 1	PE PE	250 mL 250 mL	H2S04 HN03	None None			Ammonia		PSP-DC
í.	1	PE	500 mL	None				Metals Chloride,Fluorid		ESP Oc
REMARKS:			JOV IIIL	itoire	None			Nitrate, TDS	RPD	eop ∂c
	Sat do	dicala	1/1/11	De I.	S. 4.5. 1	16		or some of co	1-1-	10
,	$\frac{3e}{2}$	1 and	> 1/ 4	PE tab	MG 41	100	15 040	C 64 83 37	742	Pungo
	at 104									
1042:	WL 28	.03° at	04	gpm, Gu	sis ca	29r.				
י גסוו	141 28	03'04	040	pon, d.					,	
1100.	114	o ag	+ -		qualo	14 75	Hable	·641.54	lear.	
1105.	Mr 98	.03 at	04	3pm al	para	neso	٠ م م د ک	51-66		
			, ,	•	,	, 🔾	-uie,	THIS WE BY	14 -	nge.
										1
										ļ
Nat 2000										
Notes: 1) U:	sed a graduated acked samples	on ice immediat	t and timed to a tely upon collec	measure purge volume	3 \$					
MATERIAL		AG = Amber G			Polyethylene;	PP = Polypr	opylene; S = S	Silicone; T = Teflon	O = Othe	r (Specify)
SAMPLING/										
EQUIPMEN'		.PP = After Peri: FPP = Reverse			3P = Bladder Pun traw Method (Tut		rain). VT =		P = Peristaltic O = Other (S)	Pump

^{2. &}lt;u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>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)

SITE						SITE			· · · · · · · · · · · · · · · · · · ·		
NAME:	Sumter Co	unty Land	fill			LOCATION:	Sumter	ville, FL			
WELL NO:	MW-4A			SAMP	LEID: MW				DATE:	10/12	1
		-			PUF	RGING DA	TA			13/12	
WELL 2"	PVC	TUBING 3/	8"	WELL	SCREEN INT			EPTH 33.14	PURGE PUMP T	VDE	
DIAMETER	(inches):	DIAMETER (inches):	DEPTH	i: feet te	o feet	TOWATE	R (feet)	OD BALLED. ES		
Only fill out	.UME PURGE: if applicable)	1 WELL VOLU	ME= (TO	OTAL WELL D	PTH - ST	ATIC DEPTH T	O WATER)	X WELL CAP	ACITY	-	
Only illi out	ii applicable)		- /	45.23'	64						
EQUIPMEN	IT VOLUME PU	RGE: 1 EQUIF	MENT V	OL. = PUMP V	feet -	IRING CAPACI	feet)	X TUDING LENGT	gallons/foot	=	gallons
(only fill out	if applicable)						'' ^	I ODII4G LEI4G	TH) + FLOW CELL	VOLUMEX 3	1.245
INTERNAL PROPERTY.	45	1 Equip V				ons/foot X	45	feet) + (/a	J gallons =	1415	gallons
	MP OR TUBING WELL (feet):			UMP OR TUBI IN WELL (feet)		PURGIN		PURGIN		TOTAL VOLUM	E
		CUMUL.	JEF 111	DEPTH		2 INITIATI	ED AT: 12	1	AT: /223 1	PURGED (gallo	ns): 6.80
TIME	VOLUME PURGED	VOLUME	PURG		pH (standard	TEMP.	COND.	DISSOLVED OXYGEN	TURBIDITY	COLOR	ODOR
İ.	(gallons)	PURGED (gallons)	RATE (gpm		units)	, (_C C)	(uS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1219	5.20	5.20	.4	33.2)	2.04	26.19	619	0.89	0 /01	00-	
idal	. %	6.00	- 🗸	33.27		26.18	619	125	3-106	Clar	None
1003	\$	6.80	. 4	33.2		26.17	618	8 63	5:20	Clear	None
			<u> </u>			0 7	—		10.14	Com	None
			ļ						Nosh	aze	
			 			_					
					_						
			1								
			1		 	1					
WELL CAP	ACITY (Gallons	Per Foot): 0.7	5" = 0.02;	1" = 0.04;	1.25" = 0.0				5" = 1.02; 6":	= 1.47; 12":	= 5.88
I ODING IN	SIDE DIA. CAP	ACHY (Gail/H.	: 1/8" = 1	0.0006; 3/16		1/4" = 0.0026	,	: 0.004; 3/8 " =	0.006; 1/2" = 0	0.010; 5/8**	= 0.016
SAMPLED	BY (PRINT) / AF	FILIATION:	- 1	SAMPLED(S)		PLING DA	MA				
Dale Cla	ytor, Colir	nas Group	Inc.	SAMPLE	SHORE	:s:		SAMPLING	1224	SAMPLING /	1240
PUMP OR 1				AMPLE PUI			<u> </u>	INITIATED AT:		ENDED AT:	
	VELL (feet):	~4	0	FLOW RATE	/	te): < 250 i	mL	MATERIAL CO	DE: PE		
FIELD DEC	OITAMINATIO	V: (F) N		FIELD-FILTE	RED: Y		ER SIZE:	µm		<u> </u>	
		ONTAINER		Filtration Equi	pment Type.				DUPLICATE:	Y)
		CATION			SA	MPLE PRESER	RVATION	1	INTENDED		
SAMPLE II	2 22 #	MATERI	T	PRESE	RVATIVE	TOTAL VO	,	FINAL	ANALYSIS AND/		MPLING UIPMENT
CODE	CONTAIN	E AL CODE	VOLU			DDED IN FIEL		pH	METHOD		CODE
MW-4A	2	PE	14		N03	A 1			GrossAlpha,		
						None			RA226RA228		ESP
66	+ 1	PE PE	250 n		N03	None			Total Ammoni	a	ESP
66	1	PE				None			Metals Chloride,Fluorid	do	ESP
		PE	500 n	No.	one	None		-	Nitrate, TDS	uc,	ESP
REMARKS:			_			4					
1006: 2	msertee	1 55 E.S.	Pan	d dedic	in feet.	318~PE	tents.	49 ton	40.6fac	2000	terles
•	ump a	+ 14 a	pm.	This w	ell 75.	م دنو سل	111-	• (y turbio		,—
	f Dura	e and		6464	1-1 O	19710	uzes	Chromel	y turbio	(at beg	Benving
	. 1		The	الم المع التع ا	39+0	ow cart	e and	our pi	of phical	clearing	ا مریا
1212:	UL 33.1	み)'aナ	49	pm. C	ill is	S-11 1		10+25	NTUS.C	5.4.	
				, -	,	- 1111 F		- 1 / 3	70, US. C	e inau	13 La 200
10.05	22 -				10060	Daln : 5	Slabl		6: 2.1.1		I
1917:	WL 33.2	1) at	49.	pm, o	. 4000	עו וייייש			ノ・ベ・ナ フ ルム	2	200-1
1917:	WL 33.2	1) at	4 g.	pm, o	660	ر ر روون - ا	ישפיייקל		sia Fy na	C aroj	soed
1917:	WL 33.2	1) at	49. All 6	pm, o other p	arame	etes an	2 5/a6	le or in	range.	es aroj	goed
1917:	WL 33.2	1) at	4 9. All 6	pm co other p	arame	eters and	2 Stab	ikorin	range.	O aroj	goed
1917:	WL 33.2	1) at	4 9. All ¢	pm.o other p	arame	eks an	sta6	korin	range.	0 000	goed
/איז: 1	WL 33.7 Lo 13 N	Tu's.	All ¢	thar p	arama	eses are	2 5198	ceorin	range.		gord
Notes: 1) Us	WC 33.7 Lo 13 N	770'S.	All €	d to measure n	arama	eses are	sta 6	korin	renge.	u arij	roed
Notes: 1) Us	WL 33.2 Lo 13 N sed a graduated acked samples o	770'S.	All &	d to measure n	urge volumes	rfers an	2 Stab	ikorin	range.		
Notes: 1) Us 2) Po MATERIAL (SAMPLING)	WL 33.2 Lo 13 N seed a graduated acked samples of CODES: PURGING A	5 gallon bucket on ice immediate AG = Amber G	and times ely upon class; Co	of to measure prollection G = Clear Glass ap; B = Be	urge volumes	olyethylene;	PP = Polypr	opylene; S=S	ilicone; T = Teflo	n; O = Other	(Specify)
Notes: 1) Us 2) Pr MATERIAL SAMPLING/ EQUIPMENT	WL 33.2 Lo 13 N seed a graduated acked samples of CODES: PURGING A	5 gallon bucket on ice immediate AG = Amber G PP = After Peris PP = Reverse	and times ely upon class; Cotallic Purrison Peris	of to measure prollection G = Clear Glass ap; B = Be stallic Pump;	urge volumes s; PE = Po ailer; BP SM = Stra	olyethylene; P = Bladder Purr aw Method (Tub	PP = Polypro	opylene; S = Si	ilicone; T = Teflo		(Specify)

^{2. &}lt;u>STABLIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>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)

SITE					T	SITE				_	
	Sumter Co	unty Land	fill			LOCATION:	Sumter	ville, FL			
WELL NO:	MW-4B		**	SAMPLE	ID: MW-		—		DATE: S	-18[13	}
WELL 2"	DVC	TUBING 3/	011	14/511 00		GING DA					
DIAMETER	(inches):	DIAMETER (nches):	DEPTH:	REEN INTE	feet	I TO WATE	EPTH 31.20	PURGE PUMP TY OR BAILER: ES		
WELL VOL	UME PURGE:	1 WELL VOLU	ME = (TOTA	L WELL DEF	TH - STA	TIC DEPTH T	O WATER)	X WELL CAP	ACITY	<u> </u>	
Only mi out	if applicable)	WellVe	c) I = c	38.49	foot _	31.20	<u>م</u> دمما	× .16	- 4	1 []	
EQUIPMEN	IT VOLUME PU	RGE: 1 EQUIP	MENT VOL.	PUMP VOL	UME + (TUB	ING CAPACI	TY X		gallons/loot TH) + FLOW CELL V	=	64 gallons
(only fill out	if applicable)	1 Equip V	ol - 02.	rollone + (006	- # V					
	MP OR TUBING		FINAL PUMI	OR TUBING	3	PURGIN	iG .	feet) + PURGIN	gallons =	OTAL VOLUM	gailons
DEPTH IN	WELL (feet):	~33'	DEPTH IN V	VELL (feet):	~33'	INITIAT	ED AT: 12		· /~ ~47 ·	URGED (galio	
TIME	VOLUME PURGED	VOLUME	PURGE	TO	pH (standard	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	(gallons)	PURGED (gallons)	RATE (gpm)	WATER (feet)	units)	(°C)	(InS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1204	332	3.35	.92		8.56	32.42	136	3.65	8.55	Char	None
1306	1.5	3.75	35	31.38	8.53	25-44	134	3.48	3.14	Clear	None
1200		3.95	10-5	31.38	8-61	ऋ पा	123	3.45	9.53	Clar	None
									Nost	l na-n	
								<u> </u>	7,000	- 1	
			· · · · · · · · · · · · · · · · · · ·			l					
WELL CAP	ACITY (Gallons	Per Foot): 0.7	 	1" = 0 04·	1 25" = 0.06	2" = 0.16	· 8" - 0 3	37; 4" = 0.65;	5" = 1.02; 6" =	4 47 400	
TUBING IN	SIDE DÌA. CAP	ACITY (Gal./Ft.)	: 1/8" = 0.00	06; 3/16"	= 0.0014;	1/4" = 0.002	6; 5/16" =		= 0.006; 1/2" = 0.		= 5.88 = 0.016
SAMPLED I	BY (PRINT) / AF	EII IATION:	CA	MOLERICO	SAMP SAMPURES	LING DA	ATA	T			
Dale Cla	aytor, Colir	nas Group,	Inc.		HONATORES			SAMPLING INITIATED AT	1309	SAMPLING / ENDED AT:	1325
PUMP OR 1	TUBING VELL (feet):	W 22'	1.2	MPLE POM				TUBING	·	ENDED AT:	
		777		OW RATE (): < 250		MATERIAL CO	DE: PE		
FIELD DEC	ONTAMINATIO			ration Equipr				μm	DUPLICATE:	Y (N)
		ONTAINER ICATION			SAM	PLE PRESE	RVATION		INTENDED		AMPLING
SAMPLE II	D #	MATERI E AL	VOLUME	PRESER	VATIVE	TOTAL VO)L	FINAL	ANALYSIS AND/C	DR EQ	UIPMENT
CODE	RS	CODE	VOLUME	USE	ED AE	DED IN FIEL	D (mL)	рН	METHOD		CODE
MW-4B	2	PE	1 Ltr	HN	03	None			GrossAlpha,		ESP
16	1	PE	250 ml.	H2S		None		444	RA226RA228 Total Ammonia	a	ESP
44	11	PE	250 mL	HN	03	None			Metals Chloride,Fluorid	<u> </u>	ESP
REMARKS:	1	PE	500 mL	Noi	ne	None			Nitrate, TDS	ie,	ESP
12.55:	Incert	1555	50 -	1 010	Production	1 3/00	DE I	1. 1	n~33°6	,	
, 5.0 0	Shala	ے در ہیں۔ م	or an	A COUR	e. co je	- 760		rs: us tr	2~33 S	toc a	
	Started	pump	oat i	25 98	m.				•		
1300:	WL 31.3	18 at a	35 30	m,6	W:50	lear	No = 5	high as	+ 3.99 mg	9/2, but	- ن
7	typical (for this	evell.	Will u	se od	Leval	5406:	رمارين	1 criteries	6 00	
ν	recessor	4. PH T	5 = 150	hiala	18.8	2 5/4	· L.	L alcas	stypical	10:00	
1203"	WL 312	ندی	1		land	'		- 4120 L	79 p. Ca	10/7	1.5 Well.
1707.	WL 31-3	10 MT .	53 98	m,	TAWA	ewy j.	S JHA	ole.			
											ĺ
Motoe: 4311	ead a amduwt	E collec bust:			_						
2) P	sed a graduated acked samples	o ganon bucket on ice immediate	and timed to ely upon colle	measure pur ction	ge volumes]
MATERIAL		AG = Amber G		Clear Glass;		yethylene;	PP = Polypr	ropylene; S = S	ilicone; T = Teflon	r; O = Other	r (Specify)
SAMPLING/ EQUIPMEN		PP = After Peris FPP = Reverse		B = Bail ic Pump;		 Bladder Pur Method (Tul 		P = Electric Subm	nersible Pump; F Vacuum Trap;	PP = Peristaltic	
		onetitute all the				(101		- vianiy, vi =	vacuum map;	O = Other (Sp	респу)у

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)

1						SITE					
NAME:	Sumter Co	unty Land	fill			LOCATION:	Sumter	ville, FL			
WELL NO:	MW-6A			SAMPLE	ID: MW-			·	DATE:	19/13	
					PUR	GING DA	TA		<u> </u>	1110	·
WELL 2"		TUBING 3/	8"		REEN INTE	RVAL	STATIC D	EPTH 34.76	PURGE PUMP	TYPE	
DIAMETER	(inches):	DIAMETER (nches):	DEPTH:	feet to	feet	TO WATE	R (feet):	OR BAILER: E	SP	
only fill out	if applicable)	I WELL VOLU	ME = (IUIA	r MELL DEP	'IH - STA	TIC DEPTH T	O WATER)	X WELL CAPA	CITY		
			= (50.84	feet		feet) X	gallons/for	ot =	gailons
Conty fill out	T VOLUME PU if applicable)	RGE: 1 EQUIP	MENT VOL.	PUMP VOL	UME + (TUB	ING CAPACI	гү х	TUBING LENGT	1) + FLOW CELL	VOLUME	ganons
(0, 04.	арриодыс)	1 Equip V	/ol :	= .02 ga	allons + (.006 gallo	nelfoot Y	feet) +	.1 25 a	.alf	
	MP OR TUBING		FINAL PUMP	OR TUBING	3	PURGIN		PURGING		allons = TOTAL VOLUM	gallons F
DEPTHIN	WELL (feet):	CUMUL.	DEPTH IN W	/ELL (feet): . DEPTH	N45	INITIATI	DAT: A	ENDED A	T: /218	PURGED (gallo	ons): 7.5
TIME	Volume Purged	VOLUME	PURGE	то	pH (standard	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	(gallons)	PURGED (gallons)	(gpm)	WATER (feet)	units)	(°C)	(hpS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1214	6.5	6.5	125	3481	7.23	2493	259	2.09	12.7	Char	26.00
12(6	· Z	7.0	105	34.81	2.25	24.97	257	3.02	12.8	Class	None
1918	.5	2-5	25	34-81	2.77	24.99	278	6-93	1a.4	Coar	None
								·	No 5h	you	<u> </u>
									<u> </u>		
			-								
WELL CAP	ACITY (Gallons	Per Foot): 0.7	5" = 0.02;	1" = 0.04;	1.25" = 0.0 6	i; 2" = 0.16	; 3" = 0.3	37; 4" = 0.65;	5" = 1.02; 6'	' = 1.47; 12":	= 5.88
TUBING INS	SIDE DIA. CAP	ACITY (Gal./Ft.)	: 1/8" = 0.00	06; 3/16	= 0.0014;	1/4" = 0.0026	; 5/16" =	0.004; 3/8" =			= 5.66 = 0.016
SAMPLED E	BY (PRINT) / AF	EIL LATION.	100		SAMP	LING DA	\TA				
Dale Cla	ytor. Colir	riciation: las Group,	inc. SA	MPI FR(S) S	GNATURES	-	_	SAMPLING	219	SAMPLING	1235
PUMP OR T			. 5	MPLE PUMP	en,		$\overline{}$	INITIATED AT:		ENDED AT:	000
DEPTH IN V		~43		OW RATE (ո։ < 250 լ	nL	MATERIAL COL	E: PE		
FIELD DECC	ONTAMINATION	V: (Y) N	FIE	LD-FILTERE	D: Y/N		R SIZE:	um	DUPLICATE:	· 6	
			Fitt	ration Equipn					DOPLICATE:	Y)
	SAMPLE C	UNIAINER		1	SAM	DIE DDECE					
		CATION				PLE PRESER	VATION		INTENDED	SA	MPLING
SAMPLE IE	SPECIFI	MATERI	VOLUME	PRESERV	VATIVE	TOTAL VO	L	FINAL	ANALYSIS AND	OR EQ	MPLING UIPMENT
CODE	SPECIFI #	MATERI	VOLUME	PRESERV	VATIVE		L	ρΗ	ANALYSIS AND METHOD	OR EQ	
	SPECIFI # CONTAIN	MATERI E AL	VOLUME 1 Ltr		VATIVE ED AC	TOTAL VO	L	ρH	ANALYSIS AND METHOD GrossAlpha,	OR EQ	UIPMENT
CODE MW-6A	SPECIFI CONTAIN RS 2 1	E MATERI AL CODE PE	1 Ltr 250 mL	HNC H2S	VATIVE AD	TOTAL VO	L	ρH	ANALYSIS AND METHOD GrossAlpha, RA226RA228	/OR EQ	UIPMENT CODE ESP
CODE MW-6A	SPECIFI CONTAIN RS 2 1 1	CATION MATERI E AL CODE PE PE PE	1 Ltr 250 mL 250 mL	HNO H2S HNO	VATIVE D AC	TOTAL VO DDED IN FIELD None None	L	pH (ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammo Metals	/OR EQ	UIPMENT CODE
CODE MW-6A " "	SPECIFI CONTAIN RS 2 1	E MATERI AL CODE PE	1 Ltr 250 mL	HNC H2S	VATIVE D AC	TOTAL VO DDED IN FIELD None None	L	pH (ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammorately Metals Chloride, Fluor	/OR EQ	UIPMENT CODE ESP
CODE MW-6A " " REMARKS	SPECIFI # CONTAIN RS 2 1 1 1	E AL CODE PE PE PE PE	1 Ltr 250 ml. 250 mL 500 mL	HNG H2S HNG Nor	VATIVE AD 03 04 03 ne	TOTAL VO DDED IN FIELD None None None	L D (mL)	pH (ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammoo Metais Chloride,Fluo Nitrate, TDS	ide,	UIPMENT CODE ESP ESP ESP
MW-6A " " REMARKS:	SPECIFI CONTAIN RS 2 1 1 1	ICATION MATERI AL CODE PE PE PE PE PE PS SS SS	1 Ltr 250 mL 250 mL 500 mL	HNG H2S HNG Nor	VATIVE AD 33 04 33 1ee	None None None	E In 6	pH	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammol Metals Chloride, Fluor Nitrate, TDS	nia ide,	ESP ESP ESP
CODE MW-6A " " REMARKS:	CONTAIN RS 2 1 1 1 MSertes	CATION MATERI AL CODE PE PE PE PE ASSES A 75	1 Ltr 250 mL 250 mL 500 mL	HNG H2S HNG Nor	VATIVE AD 33 04 13 ne AD AD AD AD AD AD AD AD AD A	None None None None None	E tu c	of ph	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammoo Metais Chloride, Fluor Nitrate, TDS 45.64	ide,	ESP ESP ESP
CODE MW-6A " " REMARKS:	CONTAIN RS 2 1 1 1 MSR tea	CATION MATERI AL CODE PE PE PE PE PE A SS & S A 175	1 Ltr 250 ml. 250 mL 500 mL	HNG H2S HNG Nor I cladie	VATIVE AD 103 104 103 104 105 106 107 107 107 107 107 107 107	None None None None None None None	E tu (Sing to a	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammol Metals Chloride, Fluor Nitrate. TDS 45.64	nia ide, ocano	ESP ESP ESP ESP
CODE MW-6A " " REMARKS:	CONTAIN RS 2 1 1 1 MSR tea	CATION MATERI AL CODE PE PE PE PE PE A SS & S A 175	1 Ltr 250 ml. 250 mL 500 mL	HNG H2S HNG Nor I cladie	VATIVE AD 103 104 103 104 105 106 107 107 107 107 107 107 107	None None None None None None None	E tu (Sing to a	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammol Metals Chloride, Fluor Nitrate. TDS 45.64	nia ide, ocano	ESP ESP ESP ESP
CODE MW-6A " " REMARKS: /AOO:	CONTAIN RS 2 1 1 1 MSR tea	CATION MATERI AL CODE PE PE PE PE PA PA PA PA PA P	1 Ltr 250 ml. 250 mL 500 mL	HNG H2S HNG Nor I cladie	VATIVE AD 103 104 103 104 105 106 107 107 107 107 107 107 107	None None None None None None None	E tu (of ph	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammol Metals Chloride, Fluor Nitrate. TDS 45.64	nia ide, ocano	ESP ESP ESP ESP
CODE MW-6A " " REMARKS: /200: 3	CONTAIN RS 1 1 1 MSENTER UMP A WISS A WIL 34- WAS 99	CATION MATERI AL CODE PE PE PE PE PE PO A SS & S A reg 90° at	1 Ltr 250 ml. 250 ml. 500 ml.	HNG H2S HNG Nor Adadi	VATIVE DO AD 13 14 15 16 16 16 16 16 16 16 16 16	None None None None None None None None	E tuber	Sing to sytuctory sh flow	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 45.64 Coffe +	ide,	ESP ESP ESP ESP ESP
CODE MW-6A " REMARKS: /200: // 1006: // 210:	CONTAIN RS 1 1 1 MSRATE UMP A UNGE OF WL 34- WL 3	CATION E MATERI AL CODE PE PE PE PE PC PC ASSES AGREE AGRE	1 Ltr 250 ml 250 mL 500 mL	HNG H2S HNG Nor I cladie This is	VATIVE AD 13 104 133 104 103 104 104 105 104 104 105 104 105 104 105 104 105 104 105 104 105 105	None None None None None None None None	Etul emeli-	Sing to rest of the flow	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammori Metals Chloride, Fluor Nitrate, TDS 45 64 Coule +	nia ide, ocano	ESP ESP ESP ESP ESP OUTO
CODE MW-6A " " REMARKS: /200: /210: // // // // // // // // //	SPECIFIC CONTAIN RS 2 1 1 1 MSENTER UMP A UNGE A WL 34- TAS 99 WL 34- TAS 99	CATION E MATERI AL CODE PE PE PE PE PS A SS A req 90° at 81° at 3/4, 6u	1 Ltr 250 ml 250 ml 500 ml	HNO H2S HNO Nor I clade	VATIVE DO AD 103 104 103 104 103 104 105 104 105 105 106 107 107 107 107 107 107 107	None None None None None None None None	Etul emeli is at	Sing to rest of flow of the fl	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Arrimon Metals Chloride, Fluor Nitrate, TDS 45.64 A Get See Coule +	nia ide, ocano siniry ockan:	ESP ESP ESP ESP OU to
CODE MW-6A " " REMARKS: /200: / 210: / 210:	SPECIFIC CONTAIN RS 2 1 1 1 MSENTER UMP A UNGE A WL 34- TAS 99 WL 34- TAS 99	CATION E MATERI AL CODE PE PE PE PE PS A SS A req 90° at 81° at 3/4, 6u	1 Ltr 250 ml 250 ml 500 ml	HNO H2S HNO Nor I clade	VATIVE DO AD 103 104 103 104 103 104 105 104 105 105 106 107 107 107 107 107 107 107	None None None None None None None None	Etul emeli is at	Sing to rest of flow of the fl	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Arrimon Metals Chloride, Fluor Nitrate, TDS 45.64 A Get See Coule +	nia ide, ocano siniry ockan:	ESP ESP ESP ESP OU to
CODE MW-6A " REMARKS: /200: //	CONTAIN RS 1 1 1 MSRATE UMP A WISS OF WIL 34 7.31 MA ZOTION (CATION E MATERI AL CODE PE PE PE PE PO ASSES A 195 A 196 A 196 Crifer:	1 Ltr 250 ml 250 ml 500 ml 200, res 155 g	HACE HACE HACE NOT I Cladie Por Por Por Por Por Por Por Po	vative and as part of the forter of the content of	None None None None None None None None	Etul emeli tahis is at	Sing to rest of the flow of th	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Arrimon Metals Chloride, Fluor Nitrate, TDS 45.64 A Get See Coule +	nia ide, ocano siniry ockan:	ESP ESP ESP ESP OU to
CODE MW-6A " " REMARKS: /AOO: -/A / Al O: -/Al O:	SPECIFIC CONTAIN RS 2 1 1 1 Masentes Lump a Lum	CATION E MATERI AL CODE PE PE PE PE PO A SS & SA A reg 90 at 3/L, 6u. Criter:	1 Ltr 250 ml 250 ml 500 ml 7 200 ml 7 200 ml 7 200 ml	HNO H2S HNO Nor I dadi	VATIVE DED AD DES PROPERTO TURBER DE LA CONTRA DELA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE L	None None None None None None None None	Etul emeli tahis is at	Sing to rest of the flow of th	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Arrimon Metals Chloride, Fluor Nitrate, TDS 45.64 A Get See Coule +	nia ide, ocano siniry ockan:	ESP ESP ESP ESP OU to
CODE MW-SA " " REMARKS: /200: /210: Notes: 1) Us	SPECIFIC CONTAIN RS 2 1 1 1 MSENTER UND A WESTER UND A WISS A	CATION E AL CODE PE PE PE PE PE PS SS SS A A SI Sgallon bucket	1 Ltr 250 ml 250 ml 500 ml 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	HNO H2S HNO Nor I dadi	VATIVE DED AD DES PROPERTO TURBER DE LA CONTRA DELA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DELA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE L	None None None None None None None None	Etul emeli tahis is at	Sing to rest of the flow of th	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Arrimon Metals Chloride, Fluor Nitrate, TDS 45.64 A Get See Coule +	nia ide, ocano siniry ockan:	ESP ESP ESP ESP OU to
CODE MW-SA " " REMARKS: /200: /210: Notes: 1) Us	SPECIFIC CONTAIN RS 2 1 1 1 MSENTER UMP 9 WIS 9 WIL 34 7,31 mg Zotton 34.8 ed a graduated cicked samples of	CATION E MATERI AL CODE PE PE PE PE PO A SS & SA A reg 90 at 3/L, 6u. Criter:	1 Ltr 250 ml 250 ml 500 ml 500 ml 7 500 ml 7 500 ml	HNO H2S HNO Nor I dadi	VATIVE DED AD	None None None None None None None None	Etul emeli tahi is at	Sing for ships of the ships of	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Armmol Metals Chloride, Fluor Nitrate. TDS A S G A S G Copper Co	nia ide, schip	ESP
CODE MW-SA " " REMARKS: /200: /210: /210: Notes: 1) Us 2) Ps	SPECIFI CONTAIN RS 1 1 1 1 MSRATE UNGRA U	CATION E MATERI AL CODE PE PE PE PE PE A SS & SA A reg 90° at 3/L, 6u. Criter: a 5 gallon bucket on ice immediate	1 Ltr 250 ml 250 ml 500 ml 500 ml 7 50 7 50 1 50 1 50 1 50 1 50 1 50 1 50 1 50 1	HNG H2S HNG Nor I clade: VATIVE DED AD	None None None None None None None None	E tuch emel: ta his is at is at elly w refe- stable	pH	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Armmol Metals Chloride, Fluor Nitrate. TDS GrossAlpha, RA226RA228 Total Armmol Metals Chloride, Fluor Nitrate. TDS Gross Gross Confe to Con	nia ide, side, sid	UIPMENT CODE ESP ESP ESP ESP OU TO	

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

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

GROUNDWATER SAMPLING LOG

SITE	O					SITE	·				
NAME: WELL NO:		unty Landi	111	T		LOCATION:	Sumter	/ille, FL		1-1-	
WELL NO:	IAIAA-O			SAMPLE	ID: MW-		T 4		DATE: 5	19/13	
WELL 2"	PVC	TUBING 5/6	 u · ·	NATELL CO.	PUR REEN INTE	GING DA					
DIAMETER		DIAMETER (in		DEPTH:	feet to		TOWATE	EPTHAS.51	PURGE PUMP TO		D
1	UME PURGE:	1 WELL VOLU	ME = (TOTA	L WELL DEP	TH - STA		O WATER)	X WELL CAPA	CITY	<u>, </u>	<u></u>
only till out	if applicable)		= (43.24'	feet –		6 - A				
EQUIPMEN	NT VOLUME PU	RGE: 1 EQUIPI	MENT VOL. =			SING CAPACIT	feet)) X TUBING LENGT	gallons/foot H) + FLOW CELL	VOLUME - A	gallons
(only fill out	if applicable)	1 Equip V	ol .	_ 00000		0006		412 1		-	•
INITIAL PU	MP OR TUBING			P OR TUBING		906 gallo		PURGING	+ .125 g	gallons = ga TOTAL VOLUM	llons , 3368
DEPTH IN	WELL (feet):	~ 38		VELL (feet):		INITIATI	ED AT: 09	31 ENDED A			ons): /.40
TIME	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pH	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
1 1111	PURGED (gallons)	PURGED (gailons)	RATE (gpm)	WATER (feet)	(standard units)	(_o c)	(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
094	1.00	1.00	i (gpin)	35.53	2.31	23.19	347	4.69	0.50	llear	None
2943	· à	1.20	1.	25.53	2.31	23.78	346	3.52	0.41	cloar	None
CHAT	. 2	140	·7,	92.23.	7.30	33.77	345	4.25	0.25	Clear	None
									11.51		
									Nosh	oon	
									-	 	
					· · · · · · · · · · · · · · · · · · ·		<u> </u>			<u> </u>	
WELL CAP	ACITY (Gallons	Per Foot): 0.75 ACITY (Gal./Ft.):	5" = 0.02; 1/8" = 0.00		1. 25" = 0.0 = 0.0014;	6; 2" = 0.16 1/4" = 0.0026					= 5.88
		riori (Gaist a)	110 - 0.00	300, 3710		PLING DA		0.004, 3/6 =	0.006; 1/2" = 0	J.010; 5/8 **	= 0.016
	BY (PRINT) / AF		42	MDI ED/C\ CL				r			
		_	. 5	WITTER	SHATURE	S:		CANADIUNIC	PAULA	04451110	1000
	aytor, Coli		Inc.	1/4	1/10.	s:	\circ	INITIATED AT:	0946	SAMPLING (ENDED AT:	000
PUMP OR	aytor, Coli	nas Group, ルラ8	Inc.	MPLE PUMP	My.	FI		INITIATED AT: TUBING		SAMPLING (ENDED AT:	000
PUMP OR DEPTH IN	aytor, Colin TUBING WELL (feet):	238	Inc.	OW RATE (m)	per panut	e): < 250	mL ER SIZE:	INITIATED AT: TUBING MATERIAL COI	DE: PE	ENDED AT:	
PUMP OR DEPTH IN	aytor, Coling TUBING WELL (feet): CONTAMINATIO	N: (1) N/2	Inc.	MPLE PUMP OW RATE (m)	per panut	e): < 250		INITIATED AT: TUBING MATERIAL COI		SAMPLING / ENDED AT:	
PUMP OR DEPTH IN	Aytor, Colin TUBING WELL (feet): ONTAMINATIO SAMPLE C SPECIF	N: W N CONTAINER	Inc.	OW RATE (m)	per prinut	e): < 250	ER SIZE:	INITIATED AT: TUBING MATERIAL COI	DE: PE	Y N	
PUMP OR DEPTH IN THE SAMPLE I	TUBING WELL (feet): CONTAMINATIO SAMPLE (SPECIE)	N: (V) N CONTAINER ICATION	Inc.	MPLE PUMP OW RATE (m) ELD-FILTERE tration Equipm	per punut B. Y nent Type SAM	e): < 250 p N FILT MPLE PRESER	RVATION	INITIATED AT: TUBING MATERIAL COI	DE: PE DUPLICATE: INTENDED ANALYSIS AND/	Y N	AMPLING UIPMENT
PUMP OR DEPTH IN THE PUMP OR T	TUBING WELL (feet): ONTAMINATIO SAMPLE C SPECIF	N: (V) N CONTAINER CATION	Inc.	OMPLE PUMP OW RATE (my ELD-FILTERE tration Equipm	per punut B. Y nent Type SAM	P): < 250 N FILT	RVATION	INITIATED AT: TUBING MATERIAL COI	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD	Y N	AMPLING
PUMP OR DEPTH IN THE DEPTH IN T	TUBING WELL (feet): CONTAMINATIO SAMPLE C SPECIF CONTAIN	N: (V) N CONTAINER ICATION MATERI AL	Inc.	MPLE PUMP OW RATE (m) ELD-FILTERE tration Equipm	per partition of the per parti	e): < 250 p N FILT MPLE PRESER	RVATION	INITIATED AT: TUBING MATERIAL COI	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha,	Y N	AMPLING UIPMENT
PUMP OR DEPTH IN THE PUMP OR T	aytor, Colin TUBING WELL (feet): CONTAMINATIO SAMPLE C SPECIF CONTAIN RS 2 1	N: (V) N CONTAINER ICATION MATERIAL CODE PE PE	VOLUME 1 Ltr 250 mL	MPLE PUMP OW RATE (m) ELD-FILTERE tration Equipm PRESERV USE HN0 H2S6	per parinut P. Y Ident Type SAN VATIVE D A	e): < 250 N FILT MPLE PRESEF TOTAL VO DDED IN FIEL None None	RVATION	INITIATED AT: TUBING MATERIAL COI	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon	Y N OR EG	AMPLING UIPMENT CODE
PUMP OR DEPTH IN THE DEPTH IN T	aytor, Colin TUBING WELL (feet): CONTAMINATIO SAMPLE C SPECIF CONTAIN RS 2 1 1	N: (V) N CONTAINER ICATION MATERI AL CODE PE PE PE PE	VOLUME 1 Ltr 250 mL 250 mL	MPLE PUMP OW RATE (m) ELD-FILTERE tration Equipm PRESERV USE HN0 H250 HN0	Per pennut Pr Y lent Type. SAN /ATIVE D A	e): < 250 N FILT MPLE PRESEF TOTAL VO DDED IN FIEL None None	RVATION	INITIATED AT: TUBING MATERIAL COI FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228	Y N OR SI	AMPLING UIPMENT CODE ESP 04 ESP 04
PUMP OR DEPTH IN TO DEPTH IN T	aytor, Colin TUBING WELL (feet): CONTAMINATIO SAMPLE C SPECIF CONTAIN RS 2 1 1 1	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 500 mL	PRESERV USE HN0 Non	per partition of the per parti	MPLE PRESER TOTAL VO DDED IN FIEL None None None	ER SIZE:	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS	Y N OR SI ia APP ide, APP	AMPLING UIPMENT CODE ESP 04 ESP 04 ESP 0C
PUMP OR DEPTH IN TO DEPTH IN T	aytor, Colin TUBING WELL (feet): CONTAMINATIO SAMPLE C SPECIF CONTAIN RS 2 1 1 1	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 500 mL	PRESERV USE HN0 Non	per partition of the per parti	MPLE PRESER TOTAL VO DDED IN FIEL None None None	ER SIZE:	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS	Y N OR SI ia APP ide, APP	AMPLING UIPMENT CODE ESP 04 ESP 04 ESP 0C
PUMP OR DEPTH IN THE PUMP OR DEPTH IN THE PUMP OR DEPTH IN THE PUMP OF THE PUMP OF THE PUMP OF THE PUMP OR DEPTH OF THE PUMP O	aytor, Colin TUBING WELL (feet): CONTAMINATIO SAMPLE C SPECIF CONTAIN RS 2 1 1 1	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 500 mL	PRESERV USE HN0 Non	per partition of the per parti	MPLE PRESER TOTAL VO DDED IN FIEL None None None	ER SIZE:	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori	Y N OR SI ia APP ide, APP	AMPLING UIPMENT CODE ESP 04 ESP 04 ESP 0C
PUMP OR DEPTH IN THE DEPTH IN T	aytor, Colin TUBING WELL (feet): ONTAMINATIO SAMPLE C SPECIF D CONTAIN RS 2 1 1 1 5:ef deg g/m.	N: (F) N CONTAINER ICATION MATERI AL CODE PE PE PE PE PE PE	VOLUME 1 Ltr 250 mL 500 mL	PRESERV USE HN0 Non	per punut. B: Y nent Type: SAM /ATIVE D A 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18	MPLE PRESER TOTAL VO DDED IN FIEL None None None	ER SIZE:	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS	Y (N) OR EC	AMPLING UIPMENT CODE ESP & ESP OL ESP OL ESP OC 24 :
PUMP OR DEPTH IN THE DEPTH IN T	aytor, Colina Tubing Well (feet): CONTAMINATIO SAMPLE CONTAIN RS 2 1 1 1 Sef deg ML 25	N: (F) N CONTAINER ICATION MATERIAL CODE PE PE PE PE PE PE A: Cated	VOLUME 1 Ltr 250 mL 250 mL	PRESERV USE HN0 Non	Per permute Property SAM	MPLE PRESER TOTAL VO DDED IN FIEL None None None	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharfast	Y (N) OR ECC ia APP ide, APP	AMPLING UIPMENT CODE FESP OL FESP OC FSP OC Af :
PUMP OR DEPTH IN THE DEPTH IN T	aytor, Colina Tubing Well (feet): CONTAMINATIO SAMPLE CONTAIN RS 2 1 1 1 5 4 1 1 5 4 1 1 1 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 5 5 4 1 1 1 1	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 500 mL	PRESERV USE HN0 Non	Per permute Property SAM	MPLE PRESER TOTAL VO DDED IN FIEL None None None	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS	Y (N) OR ECC ia APP ide, APP	AMPLING UIPMENT CODE FESP OL FESP OC FSP OC Af :
PUMP OR DEPTH IN THE PUMP OR DEPTH IN THE PUMP OR DEPTH IN THE PUMP OF THE PUMP OF THE PUMP OF THE PUMP OR DEPTH OF THE PUMP OF THE PUMP OR DEPTH OF THE PUMP OF THE PUMP OR DEPTH O	aytor, Colination TUBING WELL (feet): CONTAMINATIO SAMPLE CONTAIN RS 2 1 1 1 Set des gem. WL 25 15 + 19 D0 if	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 250 mL 1/Y · · /	PRESERV USE HN0 Non	Per permute Property SAM	MPLE PRESER TOTAL VO DDED IN FIEL None None None None None None	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharhad A+ 4-(0) 24+0-1	ia App de, App rifesia	AMPLING UIPMENT CODE FESP-OL FSP-OC At: Gut For
PUMP OR DEPTH IN THE PUMP OR DEPTH IN THE PUMP OR DEPTH IN THE PUMP OF THE PUMP OF THE PUMP OF THE PUMP OR DEPTH OF THE PUMP OF THE PUMP OR DEPTH OF THE PUMP OF THE PUMP OR DEPTH O	aytor, Colination TUBING WELL (feet): CONTAMINATIO SAMPLE CONTAIN RS 2 1 1 1 Set des gem. WL 25 15 + 19 D0 if	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 250 mL 1/Y · · /	PRESERV USE HN0 Non	Per permute Property SAM	MPLE PRESER TOTAL VO DDED IN FIEL None None None None None None	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharhad A+ 4-(0) 24+0-1	ia App de, App rifesia	AMPLING UIPMENT CODE FESP-OL FSP-OC At: Gut For
PUMP OR DEPTH IN THE DEPTH IN T	aytor, Colination Tubing Well (feet): CONTAMINATION SAMPLE CONTAMINATION CONTAMINATION PECIFON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N: ON NO NE CONTAINER ICATION MATERIAL CODE PE PE PE PE 1: Cafed 1: Cafed 1: Cafed 1: Cafed 1: Cafed 1: Cafed	VOLUME 1 Ltr 250 mL 1/Y · /	PRESERV USE HN0 Non	Per permute Property SAM	MPLE PRESER TOTAL VO DDED IN FIEL None None None None None None	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharfast	ia App de, App rifesia	AMPLING UIPMENT CODE FESP-OL FSP-OC At: Gut For
PUMP OR DEPTH IN THE DEPTH IN T	aytor, Colination Tubing Well (feet): CONTAMINATION SAMPLE CONTAMINATION CONTAMINATION PECIFON 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 1/Y · /	PRESERV USE HN0 Non	Per permute Property SAM	MPLE PRESERTOTAL VODDED IN FIELD None None None None None None None Non	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharhad A+ 4-(0) 24+0-1	ia App de, App rifesia	AMPLING UIPMENT CODE FESP-OL FSP-OC At: Gut For
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PUMP OR DEPTH IN IT IS IN IT I	aytor, Colina Tubing Well (feet): ONTAMINATIO SAMPLE CONTAIN RS 2 1 1 1 Set de gpm. WL 25 Synble Seed a graduated	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 500 mL 1/Y · · /	MPLE FUMP OW RATE (m) ELD-FILTERE tration Equipm PRESERV USE HN0 H2S0 HN0 Non PE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Per pumutes: Y Cherit Type: SAM SAM ATIVE D A A A A A A A A A A A A A	MPLE PRESERTOTAL VODDED IN FIELD None None None None None None None Non	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharhad A+ 4-(0) 24+0-1	ia App de, App rifesia	AMPLING UIPMENT CODE FESP-OL FSP-OC At: Gut For
PUMP OR DEPTH IN IT IS IN IT I	aytor, Colina Tubing Well (feet): CONTAMINATIO SAMPLE CONTAIN RS 2 1 1 1 Set de gpm. WL 25 Synble Seed a graduatec Packed samples	N: (P) N GONTAINER ICATION MATERIAL CODE PE PE PE PE PE Total form Salad form Sal	VOLUME 1 Ltr 250 mL 500 mL 1/Y 1	MPLE FUMP OW RATE (m) ELD-FILTERE tration Equipm PRESERV USE HN0 H2S0 HN0 Non PE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	per pumutes: SAM VATIVE D A A A A A A A A A A A A A	MPLE PRESERTOTAL VODDED IN FIELD None None None None None None None Non	RVATION DL (mL) 8. 640	FINAL pH	DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Sharhad A+ 4-(0) 24+0-1	ended at: Y N OR EC ia App de, App pump rifesia	AMPLING UIPMENT CODE ESP-OL ESP-OL ESP-OL At: but for
PUMP OR DEPTH IN IT IS IN IT I	aytor, Colina Tubing Well (feet): CONTAMINATIO SAMPLE CONTAIN RS CONTAIN RS 1 1 1 Set de gpm. Wi as a graduated a graduated samples Codes: (Purging as a graduated samples Codes):	N: N N N N N N N N N N N N N N N N N N	VOLUME 1 Ltr 250 mL 250 mL 1/4 · · · · · · · · · · · · · · · · · · ·	MPLE FOMP OW RATE (m) ELD-FILTERE tration Equipm PRESERV USE HN0 Non PE + 10 Measure pure totion Clear Glass; B = Baile	per pumut B: Y SAM VATIVE D A B A B A A B A B A B B A B B B B B B	PE < 250 N FILT MPLE PRESER TOTAL VO DDED IN FIEL None None None None Vone None None None None	PP = Polypr The property is a second	FINAL pH Shish DE: PE DUPLICATE: INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS Startal Af 4-(0) 24+0-1 Caftal Personal ilicone; T=Teffe	ended at: Y N OR EC ia App de, App pump rifesia	AMPLING UIPMENT CODE ESP-OL ESP-OC at: Gut for (Specify)	

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

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



	_					SITE					
	Sumter Co	unty Land	lfill			LOCATION:	Sumten	ville, FL		1 1	
WELL NO:	MW-9A			SAMPLE	ID: MW				DATE: 5	19113	
		T				IGING DA				(• (• •	
WELL 2"		TUBING 3		WELL SO	REEN INT		STATIC D		PURGE PUMP TY		
WELL VOL		DIAMETER	(inches): UME = (TOT/		feet to		TO WATER	X WELL CAPA	OR BAILER: ES	5P	
only fill out	if applicable)		· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • •		O 117(12)()	X WELL ON A			
FOUNDMEN	IT VOLUME DU	DOF: 4 FOU	= (50.17'	feet –		feet) X	gallons/foot	z	galions
(only fill out	IT VOLUME PU if applicable)	IRGE: 1 EQUI	PMENI VOL.	= PUMP VOL	UME + (IU	BING CAPACI	TY X	TUBING LENGT	H) + FLOW CELL	VOLUMEX3	1.335
		1 Equip	Vol	= .02 ga	allons + (.006 gallo	ns/foot X	50' feet) -		gallons = 44	•
	MP OR TUBING WELL (feet): 🖍		FINAL PUN	IP OR TUBINO WELL (feet):		PURGIN	iG .	PURGING	3	TOTAL VOLUM	IE .
DEI III M		CUMUL.		DEPTH	٧4٢	INITIATI	ED AT: (0 2	1	11:717.8	PURGED (gallo	ons):/9(2)
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	TO WATER	pH (standard	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	(gallons)	(gallons)	(gpm)	(feet)	units)	(_C C)	(uS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1114	18.25	18.25	125	36-67	650	25.31	916	0.30	16.3	Closer	Sulfar
1116	1×	18.75	+ sr	36.62	6.50	25:33	916	0.27	13.4	Clear	Same
1118	•)	17.20	125	36.60	6.50	33.31	315	0.05	11.8	Clear	Same
			<u> </u>						Nosh		
									10050		
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WELL CAP	ACITY (Gallons SIDE DIA. CAP	Per Foot): 0.	75" = 0.02;	1" = 0.04;	1.25" = 0.0	,					= 5.88
TODATO	SIDE DIA. CAP	ACIT (Galari	.). 170 = 0.0	, 3/16		1/4" = 0.0020 PLING DA		= 0.004; 3/8" =	0.006; 1/2" = 0	0.010; 5/8 "	= 0.016
	BY (PRINT) / AF		s	AMPLER(S)S			<u> </u>	T	1110		132
Dale Cla	aytor, Coli	nas Group	o, Inc.		The state of the s	us	\sim	SAMPLING INITIATED AT:	///9	SAMPLING # ENDED AT:	1#EC
PUMP OR 1		N45		AMPLE PUMP				TUBING		LIVOLO / III.	
DEPTHIN	WELL (feet):	_	1 .	LOW RATE (n IELD-FILTERE			ER SIZE: _	MATERIAL CO	DE: PE		-
	~					N') FILT	ER SIZE:	μm	5145146475	0	~
FIELD DEC	ONTAMINATIO	N: (Y) N	F	iltration Equipr	nent Type:				DUPLICATE:	Υ (Ν)
FIELD DEC	SAMPLE	CONTAINER	F	iltration Equipr		<u> </u>					-
	SAMPLE O SPECIF				SA	MPLE PRESE	RVATION		INTENDED	SA	AMPLING
SAMPLE II	SAMPLE C SPECIF CONTAIN	CONTAINER FICATION MATER NE AL		DOECED	SA VATIVE	<u> </u>	RVATION	FINAL pH		SA	-
SAMPLE II	SAMPLE C SPECIF D # CONTAIN RS	CODE	VOLUME	PRESER	SA VATIVE ED	MPLE PRESEI TOTAL VO AODED IN FIEL	RVATION	FINAL	INTENDED ANALYSIS AND/A METHOD	SA	AMPLING BUIPMENT CODE
SAMPLE II	SAMPLE C SPECIF # CONTAIN RS	CONTAINER FICATION MATER AL CODE PE	VOLUME 1 Ltr	PRESER USI	SA VATIVE ED	MPLE PRESEI TOTAL VO ADDED IN FIEL None	RVATION	FINAL	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228	OR EG	AMPLING DUIPMENT CODE
SAMPLE II CODE	SAMPLE C SPECIF D # CONTAIN RS	CODE	VOLUME 1 Ltr 250 mL	PRESER USI	SA VATIVE ED 03	MPLE PRESEI TOTAL VO ADDED IN FIEL None None	RVATION	FINAL	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon	OR EG	AMPLING DUIPMENT CODE ESP
SAMPLE II CODE MW-9A	SAMPLE C SPECIF # CONTAIN RS 2	CONTAINER FICATION MATER AL CODE PE PE	1 Ltr 250 mL 250 mL	PRESER USE	VATIVE ED /	MPLE PRESEI TOTAL VO ADDED IN FIEL None	RVATION	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride,Fluori	OR EG	AMPLING RUIPMENT CODE ESP ESP ESP
SAMPLE II CODE MW-9A " " REMARKS:	SAMPLE C SPECIF CONTAIN RS 2 1 1 1	CONTAINER FICATION MATER AL CODE PE PE PE PE	VOLUME 1 Ltr 250 mL 250 mL	PRESER USE HN: H2S HN: No:	VATIVE ED // 03 604 03 ne	MPLE PRESEI TOTAL VO ADDED IN FIEL None None None None	RVATION DL D (mL)	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate, TDS	OR EG	AMPLING RUIPMENT CODE ESP ESP ESP
SAMPLE II CODE MW-9A " " REMARKS:	SAMPLE C SPECIF CONTAIN RS 2 1 1 1	CONTAINER FICATION MATER AL CODE PE PE PE PE	VOLUME 1 Ltr 250 mL 250 mL	PRESER USE HN: H2S HN: No:	VATIVE ED // 03 604 03 ne	MPLE PRESEI TOTAL VO ADDED IN FIEL None None None None	RVATION DL D (mL)	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate, TDS	OR EG	AMPLING RUIPMENT CODE ESP ESP ESP
SAMPLE II CODE MW-9A " " REMARKS:	SAMPLE C SPECIF CONTAIN RS 2 1 1 1	CONTAINER FICATION MATER AL CODE PE PE PE PE PE	1 Ltr 250 mL 250 mL	PRESER USE HN H2S HN No	VATIVE ED 03 004 003 nne	MPLE PRESEITOTAL VOADDED IN FIEL None None None None	RVATION DL (mL)	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate, TDS	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
SAMPLE II CODE MW-9A " " REMARKS:	SAMPLE C SPECIF CONTAIN RS 2 1 1 1	CONTAINER FICATION MATER AL CODE PE PE PE PE PE PE PE	VOLUME 1 Ltr 250 mL 250 mL 600 mL	PRESER USI HN H2S HN Noi	VATIVE ED 03 604 03 ne e e e e e e e e e e e e e e e e e e	MPLE PRESEI TOTAL VO ADDED IN FIEL None None None None	PRVATION DL D (mL) Tubia	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
SAMPLE II CODE MW-9A " " REMARKS:	SAMPLE C SPECIF CONTAIN RS 2 1 1 1 1	CONTAINER CICATION MATER AL CODE PE PE PE PE ASS 29 ASS 00	VOLUME 1 Ltr 250 mL 250 mL 600 mL	PRESER USE HNI H2S HNI Noi Oledication	VATIVE ED 03 04 03 ne 4 17 17 17 17 17 17 17 17 17	MPLE PRESEITOTAL VC ADDED IN FIEL None None None None	HUSING	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS 5 8400 4 Gegiun:	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
SAMPLE II CODE MW-9A " REMARKS: 1030:	SAMPLEC SPECIF CONTAIN RS 2 1 1 1 1 Therefore	CONTAINER CODE MATER AL CODE PE PE PE PE ASS 29 A 16 9 A 17 15 9	VOLUME 1 Ltr 250 mL 250 mL 600 mL	PRESER USE HNI H2S HNI Noi This we	VATIVE ED 03 04 03 ne 1 S	MPLE PRESEITOTAL VC ADDED IN FIEL None None None None None	TUSINGLE ON THE STATE OF THE ST	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS 5 8400 4 Gegiun:	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
SAMPLE II CODE MW-9A " REMARKS: 1030:	SAMPLE C SPECIF CONTAIN RS 2 1 1 1 1	CONTAINER CODE MATER AL CODE PE PE PE PE ASS 29 A 16 9 A 17 15 9	VOLUME 1 Ltr 250 mL 250 mL 600 mL	PRESER USE HNI H2S HNI Noi This we	VATIVE ED 03 04 03 ne 1 S	MPLE PRESEITOTAL VC ADDED IN FIEL None None None None None	TUSINGLE ON THE STATE OF THE ST	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5 8 4 0 0 4 (Legi-un)	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
SAMPLE II CODE MW-9A "" REMARKS: 1030: 1040: 1050:	SAMPLECE SPECIFORM SPECIFORM RS 2 1 1 1 Those feel was required regular to did: Tubidi Reduced	ONTAINER CONTAINER FICATION MATER AL CODE PE PE PE PE PE ASS 29 A 16 9 A 15 9 A 15 9 A 15 9	VOLUME 1 Ltr 250 mL 500 mL 600 mL 7 4 7 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6	PRESER USE HNI H2S HNI Noi This we Sing a	VATIVE ED 03 604 03 ne ated income income income	MPLE PRESEIT TOTAL VC ADDED IN FIEL None None None None None Al8 PE P	tusing tusing town to	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5 6 6 6 6 4 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
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SAMPLE II CODE MW-9A " REMARKS: 1030:- 1040:- 1050:- 1055:- 1103:-	SAMPLECE SPECIFORM CONTAIN RS 2 1 1 1 Turbidi Turbidi Reduced WL 36-	ONTAINER CONTAINER PE	VOLUME 1 Ltr 250 mL 250 mL 600 mL 600 mL 7 Para Pur 1 144 1 (00 n	PRESER USE HNI H2S HNI Noi Oledica This we Sing a NT us Pm H	VATIVE ED 03 04 03 ne 1/1/5 1/4 1/4 1/4 1/4 1/4 1/4 1	MPLE PRESEIT TOTAL VC ADDED IN FIEL None None None None None Alg. PE Extra Claud f exsed f dity is	tusing the control of	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TDS 5 8 4 0 0 4 Gegi-un:	ia de,	AMPLING UIPMENT CODE ESP ESP ESP ESP
SAMPLE II CODE MW-9A " REMARKS: 1030: 1	SAMPLECE SPECIFO CONTAIN RS 2 1 1 1 Turbidi Turbidi Reduced Wi 36- Qre Stolly 26- UL 2	PE P	VOLUME 1 Ltr 250 mL 250 mL 600 mL 600 mL 7 4 144 1 (00)	PRESER USE HNI H2S HNI Noi Oledica This we STUS NTUS PM H PM H H H H H H H H H H H H H	VATIVE ED 03 04 03 ne 1/1/5 1/4 1/4 1/4 1/4 1/4 1/4 1	MPLE PRESEIT TOTAL VC ADDED IN FIEL None None None None None Alg. PE ALGERIA GE ALGERIA	tusing the control of	FINAL pH	INTENDED ANALYSIS ANDM METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5 8400 4 6297411.	ia de,	AMPLING RUIPMENT CODE ESP ESP ESP ESP Conja
SAMPLE II CODE MW-9A " REMARKS: 1030: 1	SAMPLECE SPECIFO CONTAIN RS 2 1 1 1 Turbidi Turbidi Reduced Wi 36- Qre Stolly 26- UL 2	PE P	VOLUME 1 Ltr 250 mL 250 mL 600 mL 600 mL 7 4 144 1 (00)	PRESER USE HNI H2S HNI Noi Oledica This we STUS NTUS PM H PM H H H H H H H H H H H H H	VATIVE ED 03 04 03 ne 1/1/5 1/4 1/4 1/4 1/4 1/4 1/4 1	MPLE PRESEIT TOTAL VC ADDED IN FIEL None None None None None Alg. PE ALGERIA GE ALGERIA	tusing the control of	FINAL pH	INTENDED ANALYSIS ANDM METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5 8400 4 6297411.	ia de,	AMPLING RUIPMENT CODE ESP ESP ESP ESP Conja
SAMPLE II CODE MW-9A " " REMARKS: 1030: 1 1040: - 1050: 1 1103: 1 Notes: 1) U 2) P	SAMPLE C SPECIF CONTAIN RS 2 1 1 1 Those feel with a contain	CONTAINER CODE PE PE PE PE PE PE PE PE PE	VOLUME 1 Ltr 250 mL 250 mL 600 mL 1 4 1 4 4 4 4 4 4 4 4 4 4 4 6 6 6 6 6 6	PRESER USE HNI H2S HNI Noi Color Color Noi Color Noi Noi Noi Noi Noi Noi Noi N	VATIVE ED 03 04 03 ne 1/1/5 1/4/6 1/4	MPLE PRESEIT TOTAL VC ADDED IN FIEL None None None None 18 " PE extra inight fill lund fill extra inight fill cased fill inight fill cased fill inight fill in	tusing the set of at 39 ge. stabler par	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5. 84 oc of tegini. 200. 14 up	ia de, porama 7:5 at	AMPLING UIPMENT CODE ESP ESP ESP Conge
SAMPLE II CODE MW-9A " REMARKS: 1030: 1	SAMPLE C SPECIF CONTAIN RS 2 1 1 1 1 The ser fer I was required I was required I was a series Reduced Wi 36-1 Roll 36-1 Sed a graduated acked samples CODES:	CONTAINER CODE PE PE PE PE PE PE PE PE PE	VOLUME 1 Ltr 250 mL 250 mL 600 mL 1 L'4 1	PRESER USE HINI H2S HINI Noil Active Single Active Office This was	VATIVE ED 03 04 03 ne 4 7 7 7 7 7 7 7 7 7 7 7 7	MPLE PRESEIT TOTAL VCADDED IN FIEL None None None None None None None None	TUSING PP=Polyp	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5. 8 foc of the state of the st	ia de, sofp soram sorim on; 0 = Other	AMPLING UIPMENT CODE ESP ESP ESP ESP Arted Urrya
SAMPLE II CODE MW-9A " REMARKS: 1030: 1040: 1050: 1003: 1103: 1111: Notes: 1) U 2) P MATERIAL SAMPLING, EQUIPMEN	SAMPLEC SPECIFOR SPEC	CONTAINER CONTAINER FICATION MATER AL CODE PE PE PE PE PF PF AT 15 9 AT 15	VOLUME 1 Ltr 250 mL 250 mL 600 mL 600 mL 1 L L L L L L L L L L L L L L L L L L	PRESER USE HNI H2S HNI Noi Oledica This we give a series NT us or measure pur lection Clear Glass; B = Bail altic Pump;	SATIVE ED 03 04 03 ne 1// / S 1//	MPLE PRESEIT TOTAL VC ADDED IN FIEL None None None None None All all all old old old old old old old old old o	TUSING PREPOPUPE ES	FINAL pH	INTENDED ANALYSIS AND/ METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluori Nitrate. TOS 5. 8 foc of the state of the st	ia de, porama 7:5 at	AMPLING UIPMENT CODE ESP ESP ESP ESP Conge (Specify) c Pump
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WELL NO:						SITE					
WELL NO:	umter Co	unty Land	fill			LOCATION:	Sumter	ville. FL			
	MW-10			SAMPLE	D: MW-	10		, <u> </u>	DATE:	2/12	
	-		_		PUR	GING DA	TA		15KIZ	7/12	
WELL 2"		TUBING .3/	Brok 1/4	WELL SCR			STATIC	EPTH .	PURGE PUMP TYP		
DIAMETER ((inches):	DIAMETER (I	nches):	DEPTH:	feet to	foot	TOMATE	D #			
only fill out if	JME PURGE: f applicable)	1 WELL VOLU	ME = (TOTA	L WELL DEPT	H - STA	TIC DEPTH T	O WATER)	X WELL CAP	ACITY		
,	upphousic)		= (45.35'	for all						
EQUIPMENT	VOLUME PUI	RGE: 1 EQUIP	MENT VOL.	= PUMP VOLUE	feet ME + (TUR	ING CAPACIT	feel		gallons/foot =	ge	allons
(only fill out if	f applicable)			0 m	· · · · · · · · · · · · · · · · · · ·	0006		TODING LENG	TH) + FLOW CELL VO	LUME X3シップる	46
INITIAL DUM	IP OR TUBING	1 Equip V		= .02 galk	ons + (9 2	- 906 gailo		feet)	+ .125 gallon	s = , 242 ga	_
DEPTH IN W	/ELL (feet):	V40'	DEPTH IN V	POR TUBING VELL (feet):	~40	PURGIN		PURGIN	G S TO	TAL VOLUME	
	VOLUME	CUMUL.		DEPTH	 	HVITIATE	D AT: 08		AT: 09(0 PUI	RGED (gallons):	<i>20</i>
TIME	PURGED	VÖLUME PURGED	PURGE RATE	TO WATER	pH (standard	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR OD	OR
	(gailons)	(gallons)	(gpm)	(feet)	units)	(CC)	(NS/cm)	(mg/L)	(NTUs)	(describe) (descri	ribe)
0906	.80	.80		26.10	6.92	24.54	626	0.43	1/21	Car No	
0900	- <u>à</u>	1.00	1	26.10	290	24.58	625	0.43	7 7 7	7 7 7	ne
DYIV	. 2	1100	1	26.10	689	24.59	623	0.43	3.49	Cear No	
										700	
									Nostre	an	
						 					
									- -		
WELL CAPA	CITY (Gallone I	Per Foot): 0.75	7 000								
TUBING INSI	DE DIA. CAPA	CITY (Gal./Ft.)	:	1" = 0.04; 1. 06; 3/16" = 0	25" = 0.06	2" = 0.16 1/4" = 0.0026			5" = 1.02; 6" = 1.		
						LING DA		0.004; 3/8 =	0.006; 1/2" = 0.01	0; 5/8" = 0.016	
SAMPLED BY	(PRINT) / AFF	ILIATION:	SA	MPLER(S) SIG	MATURES	:	-	I	0011		
		as Group,	Inc.			M		SAMPLING (INITIATED AT:		MPLING 892	5
PUMP OR TU DEPTH IN WE	BING	NUO		MPLE PUMP				TUBING	EN	DED AT:	
		400		OW RATE (mk		3		MATERIAL CO	DE: PE		1
FIELD DECON	NOTAMINATION	: (Y) N /2	Spus Filt	LD-FILTERED: ration Equipmen	t Type: N	/ FILTE	R SIZE:	µm	DUPLICATE: Y	(N)	
	SAMPLE CO	NTAINER *	~7			DI E OCEOEN				, 	
0434045.5.15	SPECIFIC #	MATERI	, ,		SAMI	PLE PRESER	VALION		INTENDED	SAMPLING	ļ
SAMPLE ID CODE	CONTAINE	AL	VOLUME	PRESERVA		TOTAL VOI		FINAL	ANALYSIS AND/OR METHOD	EQUIPMENT	г [
	RS	CODE	ļ	USED	AU	DED IN FIELD	(mL)	рH	METHOD	CODE	
MW-10	2	PE	1 Ltr	HN03		None			GrossAlpha,	4 4 4 5450 4	-
66	1	PE	250 mL	H2S04		None			RA226RA228 Total Ammonia	APPICO	<u>'C</u>
	11	PE	250	555100						1////	€
		FE	250 mL	HN03		None			Metals	APP ESPO	
46	1	PE	500 mL	None		<u>None</u> None			Metals Chloride, Fluoride,	APP ESP	c
" REMARKS:		PE	500 mL	None		None		-	Metals Chloride,Fluoride, Nitrate, TDS	APP ESP- 0	c Ic
" REMARKS:		PE	500 mL	None	ز-رو م ا	None	0.010	-	Metals Chloride,Fluoride, Nitrate, TDS	APP ESP- 0	c Ic
REMARKS:	set des	PE d: cafed	500 mL	None PE+n6)-19 a	None +~4	0.640	-	Metals Chloride, Fluoride,	APP ESP- 0	c Ic
" REMARKS: 0858 - 8	set des ul ab.1	PE licated 0'at.	500 mL	None PEtnb M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
" REMARKS: 0858 - 8	set des ul ab.1	PE licated 0'at.	500 mL	None PEtnb M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride,Fluoride, Nitrate, TDS	APP EOP O	c Ic
REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	PE licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
" REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
" REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
REMARKS: 0858 - 8 0903: 1	set des uc ab.1 wc ab.	licated 0'at.	1/4",	None PEtno M. GW	is c	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
" REMARKS: 0858 - 8 0903: 6 0905: 6	Set des UL 26.1 WL 26. Stable	PE I: Cafed O'at. (O'at. orin gallon buckets	500 mL	None PEtn6 n, GW m, dra	is c awdu	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
" REMARKS: 0858 - 8 0903: 6 0905: 6 S Notes: 1) Used 2) Pack	Set des July 26.1 July 26. July 12. July 1	PE d: Cafed 0'a+ 10 a+ orin gallon bucket a ice immediatel	500 mL	None PEtn6 M. GW M. dra Resource purge vition	is c awdu	None + ~ 4		- cand	Metals Chloride, Fluoride, Nitrate, TDS	APP EOP O	c Ic
" REMARKS: 0858 - 8 0903. 6 0905. 6 S Notes: 1) Used 2) Pack	Set des July 26.1 Will 26.1 Has le It a graduated 5 ked samples on DDES: A	PE d: Cafed 0'a+ 10 a+ orin gallon bucket a ice immediatel G = Amber Gla	500 mL	None PEtn6 n, GW m, dra	is c awdu	None It ~ U Les / I DWN; S		candi	Metals Chloride, Fluoride, Nitrate, TDS France Parame	APP EOP O	e ic gan
" REMARKS: 0858 - 8 0903: 6 0905: 6	Set day UL 26.1 UL 26.1 Lagraduated 5 ked samples on DES: A	PE d: Cafed 0'a+ 10 a+ orin gallon bucket a ice immediatel	and timed to my upon collectes; CG = Caltic Pump:	None PE fn 6 m GW m dra con dra co	volumes PE = Polye BP =	None It ~ U Les / I DWN; S	PP = Polypro	ocandi S.C. A.C. Spylene; S = Sil = Electric Subme	Metals Chloride, Fluoride, Nitrate, TDS Fluoride, Parame Parame icone; T = Teflon;	APP ESP OF	e ic gan

Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

SITE						SITE					
NAME:	Sumter Co	unty Land	fill			LOCATION:	Sumter	ville. FL			
WELL NO	:_MW-11			SAMPLE II					DATE:	10/12	
					PUR	GING DA	ΔΤΔ		1 57.12.	18/12	
WELL 2'	" PVC	TUBING 2	8400	WELL SCR				DEPTH 27.78	DUDGE BURED T	-	
DIAMETER	R (inches):	DIAMETER (inches)	DEPTH:	feet to	feet	I TO WATE	D /foot\-	PURGE PUMP TO OR BAILER: ES		
WELL VO	LUME PURGE:	1 WELL VOLU	ME = (TOTA	L WELL DEPTI	1 - STA	TIC DEPTH T	O WATER)	X WELL CAPA	ACITY		
Only he ou	t if applicable)						,				
EQUIPME	NT VOLUME PU	PCE: 1 EQUID	= (40.15'	feet -		fee	t) X	gallons/foot	=	gallons
(only fill ou	t if applicable)	TOL. I LEGOI		A./	#E+(1UE	OCO 6	TÝ X	TUBING LENGT	Gallons/root TH) + FLOW CELL	VOLUME V 3	= 1487
		1 Equip \	/ol :	galk	ns+(=	-006- gallo	ons/foot X	40 feet)			•
INITIAL PU	MP OR TUBING		FINAL PUMP	OR TUBING	•	PURGIN	łG	PURGIN		TOTAL VOLUM	gallons
DEPIHIN	WELL (feet):	CUMUL.	DEPTH IN W	/ELL (feet): ^	135	INITIAT	ED AT: 09			PURGED (gallo	
TIME	VOLUME	VOLUME	PURGE	DEPTH TO	pН	TEMP.	ACOND.	DISSOLVED	TURBIDITY	201.00	
	PURGED (gallons)	PURGED	RATE	WAIER	(standard units)	(°C)	(ngS/cm)	OXYGEN	(NTUs)	(describe)	ODOR (describe)
1943	(931013)	(gallons)	(gpm)	(feet)		-1.10	u	(mg/L)		(=====,	(Goodinge)
MUY	10	. 79	.08		631	24.89	339	1.09	11.5	Clear	None
09 42	16	1.04	.08		230	24.95	344	1.04	7.8/	Clear	None
0171		7.004	1.50	01 17 E	2.78	24.17	240	0.96	3-88	Clas-	None
								 	111	 	
									Nosh	an	
ļ											
			ļ			_					
WELL CAP	PACITY (Gallons	Per Footh: 0.7	5" = 0.02·	1" = 0.04: 4	25 " = 0.06) 6; 2" = 0.16); 3" = 0.3				
TUBING IN	SIDE DIA. CAPA	ACITY (Gal./Ft.	: 1/8" = 0.00	06; 3/16" = ().0014;	1/4" = 0.0020			5" = 1.02; 6": 0.006; 1/2" = 0		= 5.88 = 0.016
					SAMP	LING DA	ATA				-0.010
SAMPLED	BY (PRINT) / AF	FILIATION:	SA	MPLER(S) 816	VATURES	: ,			0948		
Dale Cia	aytor, Colir	as Group	· /7:>		W.	In	\mathcal{L}	SAMPLING INITIATED AT:	0740	SAMPLING ENDED AT:	1010
PUMPOR		13		MPLE PUMP				TUBING		ENDED AT.	
·	WELL (feet):			OW RATE (m/L				MATERIAL CO	DE: PE		
FIELD DEC	ONTAMINATION	V: XY N		LD-FILTERED: ration Equipmen		リ FILT	ER SIZE:	µm	DUPLICATE:	YA	3
		ONTAINER	~ (7)	1							
	#	CATION			SAM	PLE PRESER	RVATION		INTENDED	SA	MPLING
SAMPLE II CODE	D # CONTAIN	MATERI E AL	VOLUME	PRESERVA		TOTAL VO		FINAL	ANALYSIS AND/	OR EQ	UIPMENT
CODE	RS	CODE		USED	AC	OED IN FIEL	D (mL)	pH	METHOD	'	CODE
MW-11	2	PE	1 Ltr	HN03		None		_	GrossAlpha,		ESPOC
	1	PE	250 mL	H2S04		None			RA226,RA228	MP	
44	1	PE	250 mL	HN03		None	_		<u>Total Ammoni</u> Metals	777	ESP1/C
"	1	PE	500 mL	None		None			Chloride, Fluoric		ESP-AC
REMARKS:				L	1_				Nitrate, TDS		
Wan.	Sel do	مرحدس: ه	11/4 " A	> +u6	49	3 سر لمره	5 KL	or and s	Hartedp		18-14
O477.	S-1- Cree		-	,			3 6			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	المتروها
8939:	Mr as.	79 94	08 JF	on, Gi	، ۍ د	clear.	94/6	NTU'S	turbid: +4	٠.	l
40.411			_	-		,			TUTO CONTRACTOR	/]
0941.	WL DO	174 CH	-08 9	PMIO	raw	down	2:5	table.	All para	am e Le	ccaca
	Stable	Ar Sa	-				•				,,_
		-, ,,,,	J	•							
											1
Notes: 1) Us	sed a graduated	5 gallon bucket	and timed to r	neasure nume	miumee						
2) P	acked samples o	on ice immediate	y upon collec	tion				•			
MATERIAL		AG = Amber G		Clear Glass;	PE = Poly	ethylene;	PP = Polypr	opylene; S = Si	licone; T = Teflor	n; O = Other	(Specify)
SAMPLING/ EQUIPMENT		PP = After Peris		B = Bailer;		Bladder Pun		P = Electric Submi		PP = Peristaltic	
-downers		PP = Reverse		c Pump; S		Method (Tub	ing Gravity [Vacuum Trap;	O = Other (Sp	

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

2. <u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212. SECTION 3)</u>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)

SITE	umtor Cou	mha I amali	E41		1	SITE						
	umter Cou NA	my Landi	111			LOCATION:	Sumten	ville,	FL	T	-1 /	
WELL NO:	NA			SAMPLE	ID: EQB					DATE: S	18/13	
WELL		T. 1011.0		T		GING DA					(' ('	
DIAMETER (TUBING DIAMETER (ir	nchael:	DEPTH:	REEN INTEI		STATIC DI			PURGE PUMP 1		
WELL VOLU	ME PURGE: 1	WELL VOLU	ME≃ (TO	TAL WELL DEP	TH - STA	feet	TO WATER	X V): /FILCAPAC	OR BAILER: E	SP	
only fill out if	applicable)											
EQUIPMENT	VOLUME PUR	GE: 1 EQUIPI	= (MENT VO	L. = PUMP VOL	feet UME + (TUB	ING CAPACIT	feet)) X	NG LENGTH	gallons/foo f) + FLOW CELL	1 = VOLUME	gallons
(only fill out if	applicable)									I) I LOW CLL	VOLOIVIE	
INITIAL PUM	P OR TUBING		FINAL PL	gallons + (JMP OR TUBING		ns/foot X PURGIN	<u> </u>	feet)	+ PURGING	gallons =	TOTAL VOLUM	gallons
DEPTH IN W				N WELL (feet):	· · · · · · · · · · · · · · · · · · ·	INITIATI	-		ENDED A	1	PURGED (gallo	
TIME	VOLUME	CUMUL. VOLUME	PURGE	DEPTH E TO	pН	TEMP.	COND.	DIS	SSOLVED	TUDDIDITI		
TIME	PURGED	PURGED	RATE	WATER	(standard units)	(°C)	(uS/cm)	0	XYGEN	TURBIDITY (NTUs)	(describe)	ODOR (describe)
	(gallons)	(gallons)	(gpm)	(feet)	unita)			ļ	(mg/L)	<u> </u>		(
								+		-	-	
								┧			-	
								1	*			
						 		<u> </u>				
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						 		1	****			
								†			 	
WELL CAPA	CITY (Gallons P	er Foot): 0.75	5" = 0.02;	1" = 0.04; 0.0006; 3/16"	1.25" = 0.06	; 2" = 0.16	; 3" = 0.3		" = 0.65;			= 5.88
	SE DIA: OAI AC	ATT (Galli L.).	. 1/0 - 0	7.0000, 3/16		LING DA		: 0.004	; 3/8" = 1	0.006; 1/2" =	0.010; 5/8"	= 0.016
SAMPLED BY	(PRINT) / AFFI	LIATION:		SAMPLER(S) S			IIA.					
Dale Clay	ytor, Colina	s Group,	Inc.	de			_		IPLING IATED AT:	11.15	SAMPLING	11-5
PUMP OR TU		 	-	SAMPLE PUMP			<u></u>	TUB		43	ENDED AT:	433
DEPTH IN W	ELL (feet):			FLOW RATE (6	per minute): < 250 ı		MAT	ERIAL COD	E: PE		
FIELD DECO	NTAMINATION:	(Y) N		FIELD-FILTERE Filtration Equipm	D: Y N nent Type: _	FILT	R SIZE:	µr	n 1	OUPLICATE:	YN	
	SAMPLE CO SPECIFIC				SAM	PLE PRESER	VATION	-		INTENDED	64	MPLING
SAMPLE ID	# CONTAINE	MATERI	100111	PRESER	ATIVE	TOTAL VO	L	FINA		ANALYSIS AND		UIPMENT
CODE	RS	CODE	VOLUK	USE USE		DED IN FIEL		pH		METHOD	l	CODE
EQB	2	PE	1 Ltı	r HNO	13	None				GrossAlpha,		500
	1	PE	250 m							RA226RA228		ESP
66	<u>i</u>	PE	250 m			None None				Total Ammor Metals	на	ESP ESP
**	1	PE	500 m	L Non	e	None				Chloride,Fluor	ide,	ESP
	 -		 							Vitrate, TDS		ESP
		Various	Variou	vario	us	None			, ,	opendix I		ESP
REMARKS:	_										L	a.
Fieldo	tecorrec	159	rlloi	1 PE bu	Ket.	SS 25.	pan	di	NL D	rosa.I	IN DEA	258P.
Oal	101 00	INAN	÷		1	-		,,	0	0 1	1 1	
				serted								
Por	red 1	aallan	n of	OI w	atar	into	Suck	af	· 51	med 1	0 is m 10	and
	-			_						,	_	1
CLU	culate	J DIE	Waje	2 thre	ug4	pami	om	ed l	giver C	ucpre	90 to	•
SPN	eml	المريد خ	a c'L	efore	11 00	ade As	CA	12	Soul	165		
00,	721		-5) E	740,6	Cou.	وموسي	Zac	. ر	-ei-i	, .		1
Notes: 1) Lies	d a maduated E	aallan huskst	and time-	l to mass								1
2) Pac	≈ a graduated 5 sked samples on	Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes 2) Packed samples on ice immediately upon collection										
			y upon o	JIPOULUI I								1
MATERIAL C		G = Amber Gk		= Clear Glass;	PE = Poly	yethylene;	PP = Polypro	opylen	e; S = Sili	cone; T = Tef	on: O = Other	(Specify)
SAMPLING/PI	ODES: A URGING APP		ass; CG taltic Purn	S = Clear Glass; p; B = Baile	r; BP=	yethylene; = Bladder Purr v Method (Tub	p; ESP	= Ele	ctric Subme	cone; T = Tefl rsible Pump; /acuum Trap;	on; O = Other	

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

2. <u>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)</u>

ATTACHMENT 3

Chain-of-Custody Forms
Field Quality Control Reports

Environmental Laboratories, Inc.

| Alternorite Sorings: 528 S. Northake Bird., Ste. 1016 - Alternorite Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 | Gaingeaville: 6815 SW Archer Road • Gaineaville: 82.377.2349 • Fax 362.395.6639 | Gaingeaville: 6801 Swuthorin Phwy. • Jacksonville FL 32216 • 904.383.8356 • Fax 904.363.8354 | Gaingeaville: 6801 Southorin Phwy. • Jacksonville FL 32216 • 904.383.8356 • Fax 904.363.8354 | Gaingeaville: 6801 Southorin Phwy. • Jacksonville FL 32216 • 904.383.8356 • Fax 904.363.8354 | Gaingeaville: 6801 Southorin Phwy. • Jacksonville FL 32201 • 850.218.6274 • Fax 850.219.6275 | Gaingeaville: Gaingeaville: 78019 • Fax 850.219.6275 | Gaingeaville: 78019 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6377 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219.6375 | Gaingeaville: 78019 • Fax 850.219.6374 • Fax 850.219
LABORATORY I.D. NUMBER

(in degrees calcius) Preservation Code: I = ice H=(HCI) S = (H2SO4) N = (HNO3) T = (Sodkum Thiosuffate) 6 S A1303534 1.84 G.LT-1 LT-2 T: 10A (A:34) Temperature when received SOL H × $m{\lambda}$ I man to su amount FILCI NOS H Where required, pH checked Mr. 161 Ag | Maj TI R Gross Alpha SL = #ludge BOTTLE A BISIS BRYT ABSBOY MOTTAV ANALYSIS REQUIRED NO. 50 = 50g e Project Hames Survey de Co. Landoll MATRIX 5 S \mathcal{G} S <u>ろ</u> 3 us see B ogar 6w Onoil Asalr REMARKS/SPECIAL INSTRUCTIONS 10101 1000 CEII one S.8.13 [130 5.9.13 1225 Ħ P.O. Number/Project Number. A.- 48 SAMPLING SHE # Ground water DW = chinking water 5.8.13 DATE Temp from blant Grad Somp Ø Ś P ও Q Ø 4 Ó હ Project Location: Temp taken from sample SAMPLE DESCRIPTION Metrix Code: WW = wastewatel SW = surface water DCCE 4W-48 01-197 41-94 MW-YA 11-M1 44-WA Caluas Graya, Inc. M W-8 2-19 M 508 107-644-501 Mittendaire 402-663-604 STANDARD ₽ Azek Received on Ice SAMPLE Page,

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Device used for measuring Temp by unique identifier (circle IR lemp gun used) 1: 8A G: LT-1 LT-2 T; 10A (A: 3A) M: 1A	FOR DRINKING WATER USE:	(When PWS information not otherwise supplied) PWS ID:	Contact Person:	Supplier of Water.
Device used for measuring Temp I	Oake Time	410 HT	, , ,	

11/2 Ē

519.13

Relinquished by:

Form revised 06/15/2010

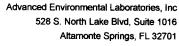
DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

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INSTRUM	MENT (N	MAKF/M(•	Instrument C YSI 556/Lam					
PARAME		**********	<i>J</i> <u>J</u> <u>J</u> <u>J</u> <u>J</u>	TOTOOTLAN	oue zo	<u>200</u> 110 110	MIT 141 #_		
		JRE `	COND	UCTIVITY	☐ SALII	NITY 🔭	7 Ha	□ ORP	
A TUI	RBIDITY	/	RESID	UCTIVITY PUAL CL	Z 100	7	OTHER _		
,				/ eters pH 4 – 7 and					
				Standard 4.01					
Stand	lard C _	Oakt	on Cond	tandard 7.00 L luctivity Standa	ard 150	0 uS/cm Ex	p: 11/2	013	
Stand	dard D_	Lame	otte 1 N7	TU Standard	Exp:	4/201	- /		
				ITU Standard					
DATE (yy/mm/dd)	TIME	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
5813	9900	Α	4.01	4.01		405	IL	10	рН
		В	7.00	2.00					рН
		С	1500	1500					Cond
				9.00					DO
				20.53					Temp
		D	1	1.0					Turb
	l	E	1500	15.0					Turb
							ı		
5 8 13	0925	Α	4.01	4.00		Yes	ICV	to	рΗ
1'		В	7.00	2.01		,			рН
		С	1500	1501					Cond
		-	-	8.91					DO
		_		20-86 0.07					Temp
		D	1	0.07					Turb
		Е	15	15.1				l	Turb
	•						-		
5/8/13	1500	Α	4.01	4.08		Yes	CC	ff C	рН
		В	7.00	6.97			1	1	pН
		С	1500	1497					Cond
				8.76					DO
				22.21					Temp
	_	D	1	0-07					Turb
		E	40%	14.9					Turb
			· -			•	,	1	

				Instrument (
			IODEL#)	YSI 556/Han	na_lN	ISTRUMENT	#		
PARAM		_	. <i>F</i>				_		
	MPERAT	TURE .	CONE	DUCTIVITY	☐ SAL	INITY	×ρΗ	ORP	
				DUAL CL			OTHER_		
				eters pH 4.01 – 7				,	
Stan	idard A	Oak	ton pH	Standard 4.01	Units	Exp: 3	13014		
Stan	idard B	Oak	ton pH S	Standard 7.00	<u>Units</u>	Exp:	12014	!	
Stand	dard C _	<u>Oak</u>	ton Cond	ductivity Stand	ard 15	00 uS/cm E	xp: ///3	013	
Stand	dard D _	Han	na 0.1 N	TU Standard	Exp:	4/2015			
Stand	lard E _	Han	na 15 N	TU Standard	Ехр:	4/201	5		
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
5/9/13	0830	A	4.01	4-01		Yes	IC	10	рН
1		В	7.00	2.00		1	1	1	рН
		С	1500	1500					Cond
				9.12					DO
				19.87					Temp
		D	0.1	0.1					Turb
ł		E	15	15.0					Turb
5913	0850	A	4.01	4.01		Yes	IGV	1100	рН
		В	7.00	7.01		1		i	pН
		С	1500	1500					Cond
				9.08					DO
				20.35					Temp
		D	0.1	0.06					Turb
		Ε	15	14.9			/		Turb
								<u> </u>	
5/9/13	1300	Α	4.01	4.00		405	CC	110	pН
	İ	В	7.00	7 00		1		1	рН
		С	1500	7.00				- 	Cond
			_	8.76					DO
		-		22.10					Temp
		D	0.1	0.08					Turb
		E	15	15-0				1	Turb
Ī				-,		- t - 			
									
T				·					1

ATTACHMENT 4

Supplemental Water Quality Analyses (MW-4C and MW-4D)







July 8, 2013

Rick Potts The Colinas Group, Inc. 377 Maitland Avenue Suite 2012 Altamonte Springs, FL 32701

RE:

Workorder:

A1304649 Sumter Co Landfill

Dear Rick Potts:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, June 25, 2013. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

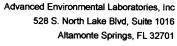
Myrna Santiago

MSantiago@AELLab.com

Enclosures

Report ID: 268721 - 553652

Page 1 of 9







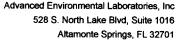
SAMPLE SUMMARY

Workorder: A1304649 Sumter Co Landfill

Lab ID	Sample ID	Matrix	Date Collected Date Received
A1304649001	MW-4C	Water	6/24/2013 14:10 6/25/2013 10:21
A1304649002	MW-4D	Water	6/24/2013 16:38 6/25/2013 10:21

Report ID: 268721 - 553652

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ANALYTICAL RESULTS

Workorder: A1304649 Sumter Co Landfill

Lab ID:

A1304649001

Sample ID:

Parameters

MW-4C

Date Received: 06/25/13 10:21

Matrix:

Water

Date Collected: 06/24/13 14:10

Sample Description:

Location:

Results Units

Qual DF Adjusted

PQL

Adjusted MDL

Analyzed

Lab

Α

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Nitrate

5.2 mg/L

0.50

0.051 6/25/2013 19:09

Lab ID:

A1304649002

Date Received: 06/25/13 10:21

Matrix:

Water

Sample ID:

MW-4D

Date Collected: 06/24/13 16:38

Sample Description:

Location:

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

WET CHEMISTRY

Analysis Desc: IC,E300.0,Water

Analytical Method: EPA 300.0

Nitrate

6.5 mg/L

0.50

0.051 6/25/2013 20:16

Report ID: 268721 - 553652

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ANALYTICAL RESULTS QUALIFIERS

Workorder: A1304649 Sumter Co Landfill

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.

LAB QUALIFIERS

A DOH Certification #E53076(AEL-A)(FL NELAC Certification)

Report ID: 268721 - 553652

Page 4 of 9



QUALITY CONTROL DATA

Workorder: A1304649 Sumter Co Landfill

QC Batch:

WCAa/1591

Analysis Method:

EPA 300.0

QC Batch Method:

EPA 300.0

Prepared:

Associated Lab Samples:

A1304649001, A1304649002

METHOD BLANK: 1244710

Reporting

Parameter

Units

Limit Qualifiers

WET CHEMISTRY

Nitrate

mg/L

0.051

Blank

Result

0.051 U

LABORATORY CONTROL SAMPLE: 1244711

Parameter

Units

Spike Conc.

LCS Result

LCS % Rec % Rec

Limits Qualifiers

WET CHEMISTRY Nitrate

mg/L

4.9

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1244714

1244715

Original: A1304649001

Parameter

WET CHEMISTRY

Spike Conc.

Original

Result

MS Result

MSD MS Result % Rec

MSD % Rec % Rec Max

Limit RPD RPD Qualifiers

Nitrate

mg/L

Units

7.6

7.6

0 10

Report ID: 268721 - 553652

Page 5 of 9





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: A1304649 Sumter Co Landfill

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
A1304649001	MW-4C			EPA 300.0	WCAa/1591
A1304649002	MW-4D			EPA 300.0	WCAa/1591

Report ID: 268721 - 553652 Page 6 of 9



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Environmental Laboratories, Inc. Advanced

_(in degrees celclus) Preservation Code: | = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosuffate) 40 LABORATORY I.D. NUMBER ಠ G: LT-1 LT-2 T: 10A Temperature when received **₹**8 ∺ unique identifier (circle IR temp gun used) Where required, pH checked **S.L** = studge SJITTOB 8 SSIS SYYT PRESER. ANALYSIS REQUIRED Device used for measuring Temp by GOUNT. ther On off Assir SO = soil MATRIX Project Name Swart St. Landell \mathcal{Z} S O REMARKSISPECIAL INSTRUCTIONS Moject Location: Survey Cut. 116. P.O. Number/Project Number: P. 483 TIME 821.0 PHO (138 SAMPLING DATE GW = ground water DW = drinking W Temp from blenk Grab Comp Q O Temp taken from semple Suite 2011 SAMPLE DESCRIPTION 19701 Manne the Colinas Grayo , Inc. Metritx Code: WW = wastewater SW = surfage water した・アク 377 Aloitand Ave Alternate Soings 区/se 口No 407-662-8194 167-162-697-817 optes STANDARD Form revised 06/15/2010 ਠ Received on log SAMPLE ID rn Around Time: Page

FOR DRINKING WATER USE:

1501

흄

Received by:

ᄩ ल

흏

Relinquished by:

£1.50

(When PWS information not otherwise supplied)

Phone Supplier of Water. Confact Person Sile-Address:

7.5

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

SITE NAME:	Sumter Co	unty Land	£11			SITE							
WELL NO:		unty Lanu	1111	0.00001	ID: MW	LOCATION: Sumterville, FL							
WELL NO.	1111-40	······································		SAMPLE		GING DA	TA		DATE: 6	24/13			
WELL 2"	PVC	TUBING .3/	8"	WELL SO	REEN INTE		STATICD	EDTU	BUDGE DUMP	3/00	 		
DIAMETER	? (inches):	DIAMETER (I	inches):	DEPTH:	feet to	feet	TO WATE	R (feet):	PURGE PUMP 1	7-7-41	O ESPO		
	.UME PURGE: 'if applicable)	1 WELL VOLU	ME = (TOTAL	MELL DEF	TH - STA	TIC DEPTH T	O WATER)	X WELL CAPA	CITY				
			= (14.620	_ feet		feet	t) X	gallons/foo	<i>t</i> -	gallono		
EQUIPMEN	IT VOLUME PU	RGE: 1 EQUIP	MENT VOL. =	PUMP VOL	UME + (TUE	BING CAPACI	TY X		H) + FLOW CELL		gallons		
(Only in Out	п аррикаме)	1 Equip V	/ol :	= .02 ga	elions + (.006 gallo	une/foot Y	42' feet)	+ .125	<u></u> አገ	, , , ,		
Ł .	MP OR TUBING		FINAL PUMP	OR TUBING	3 _	• PURGIN	IG 🛌	PURGINO		gailons = , 3. TOTAL VOLUM			
DEPIHIN	WELL (feet):	CUMUL.	DEPTH IN W	ELL (feet): ;		INITIATI	ED AT: 3	O ENDED A	T: 1406	PURGED (gallo	ons):30.10		
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	TO	pH (standard	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR		
	(gallons)	(gallons)	(gpm)	WATER (feet) _	units)	(C)	(uS/cm)	(mg/L)	(NTUs)	(describe)	(describe)		
14,00	27,10	27.10	.5	32.80	7.18	2596	428	2.15	52.3	Coudes	None		
1403	1.00	38-18	1.2	3280	717	26.00	443	2.14	49.0	Tan	None		
1406	1.00	30.10	: <>-	33.80	2.20	3600	130	4.13	<u>52.3</u>	Samo	Nave		
	, , ,			30-10	2.00	00-00	70)	0112	13000	Some	None		
									Nost	0000			
			-	-		<u> </u>	<u> </u>						
			<u> </u>			 		 					
								 	1				
TUBING IN:	ACITY <i>(Galions</i> SIDE DIA. CAP	Per Foot): 0.79 AÇITY (Gal./Ft.)	5" = 0.02; 1 1: 18" = 0.00	1" = 0.04; 06: 3/16"	1.25" = 0.0 = 0.0014;	6; 2" = 0.16 1/4" = 0.0026		,			= 5.88		
		1 - 1	0.00	50, 0.10		PLING DA		- 0.004, 3/6 =	0.006; 1/2° =	0.010; 5/8	= 0.016		
	BY (PRINT) / AF			MPLER(S) S				SAMPLING	((4)		110		
		nas Group,	Inc.			16		INITIATED AT!	407	SAMPLING (ENDED AT:	410		
PUMP OR T DEPTH IN V		235	7	MPLE PUMP OW RATE (m		× < 250	ml	TUBING MATERIAL CO	ne. DE				
FIELD DEC	ONTAMINATIO	N. (V)	FIE	LD-FILTERE	D: Y		ER SIZE:	μm					
			prose fill	ration Equipn	nent Type				DUPLICATE:	YN	ノ		
	SPECIF	ICATION)		SAA	APLE PRESER	RVATION		INTENDED	SA	AMPLING		
SAMPLE IL	CONTAIN	IE MATERI	VOLUME	PRESER		TOTAL VO		FINAL	ANALYSIS AND		UIPMENT CODE		
MW-4C	RS	CODE		USE	ED A	DDED IN FIEL	D (mL)	рН			CODE		
MAA-AC	1	PE	120 mL	Nor	ne	None			Nitrate	Ma	ESE		
						·				<i>2107</i>	25/0		
			 	 							_		
DEMARKS.			1								۳		
REMARKS:	Za con	10 100	vilco-	001	-1-	-1-					/ ^		
rodu.	21	Rome	2 1/4	/ < 1	no. 7	3701	~ > /	6toc		fea tea	gamo		
	at 100	5 98~	١.										
13 2 25	3			_			_	4					
1030	i we a	7.96 9	+ 105	9pm	n 60	J 75 4	extra	emaly 7	herbid.	Thise	Jel/		
	Was r	ecent1	do	MA 00.	d 400	da	20 > 40	dand	and and	Can 1	6.1		
	1146		Cla	عار م	1 -		1	and	reneus	LUPED	· 6W		
								apmen			42001		
	Stabil	izanto	n cri	ferio	Loc	tub:	d:+7	if nec	essory	•			
12405	WLan	950	4.0	SAP	m. ,	م (عوم)	laciu:	5 5/06	(GE)	5 Sh.	//		
	extra	[_]	, , , , ,			1 415	2000	() ()		- t -	•		
Notes: 1) Us	sed a graduated	5 gallon bucket	and timed to	ーチ (measure pur	ロンジ・ ge volumes	TOTE	۱ - محداد	GW:S	(un real	700			
2) P	ackeo sampies	on ice immediati	ely upon collec	ction				(000-)					
SAMPLING/		AG = Amber G PP = After Peris		Clear Glass; B = Baile		iyethylene; = Bladder Dur	PP = Polypi		licone; T = Tefk		r (Specify)		
EQUIPMENT	T CODES: R	FPP = Reverse	Flow Peristalti	ic Pump;	SM = Stra	= Bladder Pur w Method (Tul		P = Electric Subm Drain); VT =	ersible Pump; Vacuum Trap;	PP = Peristaltic O = Other (S)			
rvotes: 1. The	e above do not r	constitute all the	information re	coulood by Ch	ontor 62.16	A EAC							

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

2. <u>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)</u>

- MW-4C (Cont.)
- Dus. Tubidity is still over 1000 NTU's. Roised took to ~ 30. Stoc. Latis of very fine sitty material in God.
- 1255: Trability is still ove 1000 NTUS. Will switch ove to a saburersible pumpord see it wall will close up at a higher flow rate.
- 1310: Inswfed 55 ESP and New 3/8. PE tub: 4 to ~35. bloc and started pump at 1759pm.
- 1300: WL 33-82 | west is slowly drawing down, Reduced flow to .5 gpin. Tu-6-dity is at 214 NTUS. Continuing purge.
- 1305: Tubidity is 9499 NTUT. Reduced flow to , 3 gom.
- 1927: Tubidity is geing up at slawer flowrage. Is 356 NTUS. Invessed flow to , 5 gpm.
- 1337: Turbidity is at 32 Mis. Continuing purpose is som,
- 1342: Turbiday is at 35 NTVS. WC 3285 32-85 at -5 38m.
- 1347: Tubidity is going up again. Will fall backen optional Stabilization enteria. Turbidity is 56 NTUS. WL 32.80.
- 1354: Turbidity is up to 161 NTUS.
- 1356: Turbidity is flewfunting, probably due to the very fine material (sitt) suspended in Owl and coming through well felter pack. Will Steat measuring field parameters WL 32.80 at 598m.

15.0

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

SITE					T	SITE				**************************************			
		unty Land	fill			LOCATION:	Sumter	ville, FL		. ,			
WELL NO:	MW-4D			SAMPL	EID: MW				DATE:	24/13			
A11 E	PURGING DATA WELL 2" PVC TUBING .3/8" WELL SCREEN INTERVAL STATIC DEPTH PURGE PLINE TYPE												
-		1		WELL S			STATIC D	1	PURGE PUMP T				
DIAMETER (ii WELL VOLUI		DIAMETER (1 WELL VOLU	inches): IME = (Ti	OTAL WELL DE	PTH - STA		TO WATER	X WELL CAPA	OR BAILER: ES	<u> </u>			
only fill out if	applicable)		•	40.9	Ø	.,,,,,,	O WATELY	X FFELL OAF	10// /				
EQUIPMENT	VOLUME DI	RGE: 1 FOUR	= (DL. = PUMP VO	feet -	DING C4040	fee	t) X	gallons/foot	=	gallons		
(only fill out if	applicable)			JL FUMP VU	LUME + (IUI	BING CAPACI	TY X	TUBING LENGT	TH) + FLOW CELL	VOLUME X 3	=1.155		
INUTIAL DUBA		1 Equip \			allons + (.006 gallo		40 feet)	+ .125 g	allons = , 3,	85 gallons		
INITIAL PUMF DEPTH IN WE		~		UMP OR TUBIN IN WELL (feet):		PURGIN		PURGINI ENDED	G	TOTAL VOLÚM	IE .		
	VOLUME	CUMUL.		DEPTH	DH		, -	DISSOLVED	102411	PURGED (gallo	ns):		
TIME	PURGED	VOLUME PURGED	PURG		(standard	TEMP.	COND. (uS/cm)	OXYGEN	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)		
11-20	(galions)	(gallons)	(gpm		units)			(mg/L)	(77700)	SISHU	(uosciibe)		
1631	32-10	38.10	23	33.20		24-88	786	4-65	84.1	Cloud	Mora		
1630	1.50	21.10	1 3	497.00	8.04	34.83	380	4.62	100 R	white	None		
		77		J	0.00	Day 1	00 /	400	13-0	Jame	'None		
			 		ļ	ļ			No st	ean			
					 	 			7	· ·			
			 		 								
WELL CAPAC	CITY (Gallone	Per Foot): 0.7	'E" - 0 03	1" = 0.04;	1.25" = 0.0	6; 2" = 0.16							
TUBING INSI	DE DIA. CAP	ACITY (Gal./Ft). 1/8" =	0.0006; 3/16°	' = 0.0014;	1/4" = 0.002	5;	37; 4 " = 0.65; = 0.004; 3/8" =	5" = 1.02; 6" = 0.006; 1/2" = 0		= 5.88 = 0.016		
						PLING DA	ATA						
SAMPLED BY	<i>(PRINT) / AF</i> rtor_Colin	FILIATION: Nas Group	inc	SAMPLER(S)	SIGNATURE	S: /		SAMPLING	1635	SAMPLING /	1/208		
PUMP OR TU		ias Group	, 1116.	Secreting.				INITIATED AT:	102	ENDED AT:	67.		
DEPTH IN WE		N3	5	FLOW RATE (_	< 250	mL	MATERIAL CO.	DE: PE				
FIELD DECOM	VTAMINATIO	V: (Y) N		FIELD-FILTER		N) FILT	ER SIZE:	μm	DUPLICATE:	YN	7		
		ONTAINER	i	Till disors Equip		MDI E DDEOE	31/47/04/			<u> </u>			
	SPECIFI #	ICATION MATERI			SAF	MPLE PRESE	RVATION		INTENDED		AMPLING		
SAMPLE ID CODE	CONTAIN	E AL	VOLU	ME PRESER		TOTAL VO DDED IN FIEL		FINAL pH	ANALYSIS AND/O METHOD		UIPMENT CODE		
MW-4D	RS	CODE					D (IIIL)	μп					
	1	PE	120 r	nL No	ne	None		-	Nitrate		ESP		
	<u> </u>												
			1										
REMARKS:	L	<u> </u>		L									
1535	Insen	4ed 55	25%	and	ded:	anted-	49E 3	18.05	Jub; my	1.	~ 30-1		
	h1	- / 5		10		. ' >-			74.5	י שין פ	- 23		
	HOC A	end of	ange	dpni	np a	F- 13	300	· .					
1542:	wl ar	1.23 a	ナ・フ	5 98W	1,6W	is ex	trans	2/5-4-6	. d. da	* 40.00 d	1.1.0		
/	recent	ly da	maa	edon	d per	gred	. 6.1	3000	120/-		Was		
0	C dow	elopme	hart.				, GN	WED TE	sid. This	78- N	· I how		
•													
1>475	UL A)	-05 Af	-15	300	1 tur	brdity	is a	+ 418	NTUS.		Į		
1505:	TURE	dity;	SA	+ 184.	ハナロ	is-Re	duad	flow.	10.5	a Om			
1500	Jub:	dity	75 g	DIVY 6	say	upa	+ low	ver flow	srate.	Inor	eased		
		5 gallon bucke on ice immedial		a to meagure pur	rge volumes	Flore	. مل	9 9pm					
MATERIAL CO		AG = Amber G		G = Clear Glass;	PE = Po	lyethylene;	PP = Polypi		ilicone: T = Teflo	p, 0 = Other	r (Cnooif: 1		
SAMPLING/PL		PP = After Peri	staltic Pun	np; B=Bai		= Bladder Pur	<u>;;</u>	P = Electric Subm		PP = Peristaltic			
EQUIPMENT C Votes: 1. The a		FPP = Reverse		staltic Pump; on required by C	SM = Stra	w Method (Tul			Vacuum Trap;	O = Other (Sp			
			······································	m roquireu by C	нарк ог 02-70	v, F.A.G.							

^{2. &}lt;u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>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)

MW-40 (Cart.)

- 19 1605: Turbidity is at 140 Naus. Continuing purpose
 - 1600: Turbidity is at Ag NTU's, Reduced flow to. 18 gpm.
 - 1615: Turbidity is of 146 NTU'S. Turbidity is again going up at lower flow rate. Increased flow to . 3 gpm.
 - 1618: Turbidity is still sony aprisat 179 NTUS. Increased flow to .759pm. Will use aptional stabilization criteria for turbidity. It is high but typical for some of the wall at this landfill. tot 27.000
 - 16/9: Wh 27.50° at .75 gpm, all paramaters are stable or in

DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

Page __of__

Field Instrument Calibration Records	
INSTRUMENT (MAKE/MODEL#) YSI 556/Hanna INSTRUMENT #	
PARAMETERS:	
TEMPERATURE CONDUCTIVITY SALINITY SOH GORP	
TURBIDITY RESIDUAL CL OO 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 60(4)	
Standard B Oakton pH Standard 7.00 Units Exp: 8/2014	
Standard C Oakton Conductivity Standard 1500 uS/cm Exp: 4/2014	
Standard D Hanna 0.1 NTU Standard Exp: 42015	
Standard E Hanna 15 NTU Standard Exp:	

Standard E_		Hanna 15 NTU Standard E				: 4/2015				
DATE (yy/mm/dd)	TIME (hrmin)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS		
6/4/13	1220	Α	4.01	4.01		Yes	IL	100	рН	
		В	7.00	2.00		1	1	1	pН	
		С	1500	1500					Conc	
				7.38					DO	
				31.42					Tem	
		D	0.1	0.1					Turb	
		E	15	15.0					Turb	
							1	 		
6/24/13	1300	Α	4.01	4.01		Yes	ICV	160	рΗ	
1		В	7.00	6-98			1		рΗ	
		С	1500	1501					Conc	
				7.64					DO	
				29-36					Temp	
		D	0.1	0.09					Turb	
<u>l</u>		Ε	15	14.9					Turb	
124 13	1655	A	4.01	4.00		Yes	((10	рН	
		В	7.00	7.00			1		рΗ	
		С	1500	1502					Cond	
				7.62					DO	
				29.86					Temp	
		D	0.1	0.07					Turb	
		Ε	15	14.9				t	Turb	
ľ	9									

ATTACHMENT 5

Existing Installation Site Documentation
Sketch of Lease Agreements (July 10, 2013)





STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

P. O. BOX 20350

9721 EXECUTIVE CENTER DRIVE, NORTH ST. PETERSBURG, FLORIDA 39742 53702 Phone: 813/576-6420)

JOSEPH W. LANDERS JR

January 21, 1976

Sumter County SW Central Sanitary Landfill 3/108

Board of Sumter County Commissioners P. O. Box 8 Bushnell, Florida 33513

Dear Board Members:

Pursuant to your recent application, please find enclosed a permit (No. S060-0069) dated 1/21/76 to construct/operate the subject pollution source.

This permit will expire on 1/21/80 , and will be subject to the conditions, requirements and restrictions checked or indicated otherwise in the attached sheet "Construction/Operation Permit Conditions".

This permit is issued under the authority of Florida Statutes 403.061(16) and 403.707, and Chapters 17-4 and 17-7 of the Florida Administrative Code. The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the Department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Very truly yours,

Banks B. Vest, Jr. District Manager

Southwest District

WEL BLC/smw

cc: S.W.F.W.M.D.

U.S.G.S.

U.S.D.A.S.C.S.

Central Files

John Springstead, P. E.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

OPERATION PERMIT

FOR Sumter County Central
Sanitary Landfill
(Woodward Site)
PERMIT NO S060-0069 DATE OF ISSUE January 21, 1976
PERMIT NO. S060-0069 DATE OF ISSUE January 21, 1976
PURSUANT TO THE PROVISIONS OF SECTIONS 403.061(16) AND 403,707 OF CHAPTER 403 FLORIDA
STATUTES AND CHAPTERS 17-4 AND 17-7 FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO:
Board of Sumter County Commissioners
FOR THE OPERATION OF THE FOLLOWING:
A sanitary landfill for the Disposal of Solid Waste resulting from
Residential and Commercial Activities.
LOCATED AT: T20S, R22E, Sect. 15
Lat 28° 44' 30" N., Long 82° 05' 20" W
Lat 28" 44" 30" N., Long 62 20 W
IN ACCORDANCE WITH THE APPLICATION DATED December 22, 1975 & December 30, 1975
The state of the s
ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A
PART OF THIS PERMIT AS THOUGH FULLY SET FOURTH HEREIN. FAILURE TO COMPLY WITH SAID
CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE
APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.
THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL
OR UNTIL REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE
JE Attendary De Landere
DISTRICT ENGINEER
SECRETARY
Mal & Vat
DISTRICT MANAGER V

DEF. MENT OF ENVIRONMENTAL RECULAT PROVISOS FOR RESOURCE RECOVERY FACILITIES OPERATION PERMIT CONDITIONS

Permit No. S060-0069

DATE January 21, 1976

- (X) 1. Dust free, all-weather access roads to the site shall be maintained.
- (X) 2. Operations shall be limited to adequately dewatered sections of the site.
- (X) 3. All applicable Rules of the Department shall be adhered to.
- (X) 4. There shall be no open burning at this site.
- (X) 5. A trained supervisor or foreman shall be responsible for maintaining the operation.
- (X) 6. Access to the site shall be controlled to keep out unauthorized persons and to assist the landfilling operation. Access shall be allowed only when an attendant is on duty.
- (X) 7. Signs indicating traffic flow, hours of operation, and any charge for disposal shall be provided.
- (X) 8. All objectionable odors originating from this site shall be effectively controlled during all phases of operation.
- (X) 9. Groundwater from at least 4 test wells around the landfill perimeter and collected drainage from the site shall be examined on a quarterly basis for BOD, COD or TOC, pH, conductivity or chlorides, nitrates, total coliform bacteria, cadmium, chromium, copper, and lead. Samples shall be analyzed by a pesticide scan for chlorinated hydrocarbons on a semiannual basis. Results of these examinations shall be submitted promptly to the Southwest District Office, Florida Department of Environmental Regulation.
- (X) 10. The access road from SR 470 to the landfill entrance shall have trash pickup no less than once a week.

5.00 ACRES Activity and the same and the s ACUS JOINT USE & ACCESS AGREEMENT ORB 2320 PG 775 LL ACMS JOINT USE & ACCESS ACREEMENT ORB 2320 PG 775 ACMS OF SUMTER, KLO INCENTIVE LEASE AGREEMENT 1 60 AGRES ACMS OF SUMTER, LEC NOENTRYE LEASE ACRES MENT (25.07 ACRES