5164

SARASOTA COUNTY
"Dedicated to Quality Service"

Dept. Of Environmental Protection
OCT 15 2008
Southwest District

October 13, 2008

Susan Pelz, P.E.
Solid Waste Section
Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-002-SO/01
Quarterly Evaluation Monitoring Report (July-September, 2008)

Dear Ms. Pelz:

Enclosed is the Quarterly Evaluation Monitoring Report as specified in Specific Conditions Part E.4.c. and E.7. respectively. A summary of the water quality standards that were exceeded during the reporting period have been included with this report as well as a ground water contour map showing water elevations during the sampling event.

Compliance well CW-10R showed a first time exceedence for sulfate at a value of 260 mg/L, and monitoring well MW-11R had a significant increase in the TDS value at 800 mg/L. All other exceedences were within historical water quality and many of the values showed a decrease in value from the last monitoring period.

If you have any questions or concerns, please contact me at (941)861-1532 or lerose@scgov.net.

Sincerely,

Lois E Rose

Lois E. Rose
Manager, Solid Waste

attachments

CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
EXCEEDENCE OF MCLs SUMMARY
2008 - 3rd Quart Evaluation Monitoring Report

		20585	21455	22883	4509	22884	4510	22885	20588	22886	20589
		Background	Detection	Compliance	Detection	Compliance	Detection	Compliance	Detection	Compliance	Detection
Parameter	MCL	MW-1R	MW-8A	CW-8A	MW-9	CW-9	MW-10R	CW-10R	MW-11R	CW-11R	MW-12
Solids, Total Dissolved	500 mg/l		970		1000	870	820	990	800	660	1600
Iron	0.3 mg/l		110	64	37	24	51	10	3.2	13	4.3
Sulfate	250 mg/l							260			370
Total Ammonia	2.8 mg/l		12	4.2	7.3	7.9	6.1				
pH	6.5-8.5		6.31	5.78	6.45	6.45	6.3	6.17	6.44	6.12	
Chloride	250 mg/l										
Arsenic	10 ug/l		51	61	49	81	12	21		21	
Antimony	6 ug/l										
Sodium	160 mg/l										

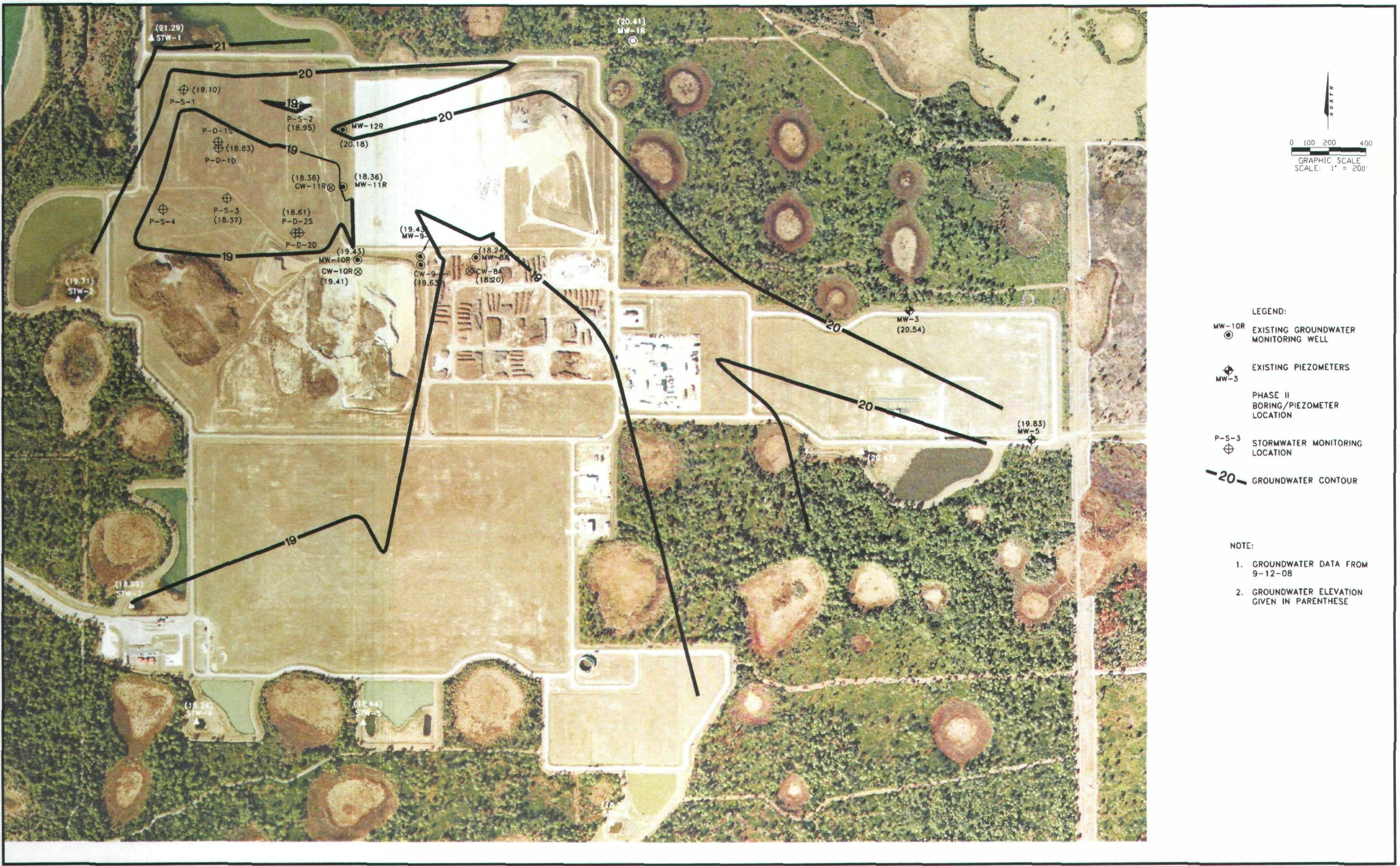
Evaluation Monitoring Well Comparison

2008 March, June, October

				Background WAC# 20585 MW-1R			Detection WAC#21455 MW-8A			Compliance WAC#22833 CW-8A			Detection WAC#4509 MW-9			Compliance WAC#22884 CW-9			Detection WAC#4510 MW-10R			Compliance WAC#22885 CW-10R			Detection WAC#20588 MW-11R			Compliance WAC#22886 CW-11R			Detection WAC#20589 MW-12R		
Analyte	**MCL**	**PQL**	**Units**	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3
Acetone		**100.0**	ug/L		9.1																												8.7	
Ammonia as N	**2.8**		mg/L	0.13	0.11		19	20	12	4.6	4.4	4.2	14	13	7.3	15	13	7.9	7.4	7.8	6.1	1.5	3.2	1.5	0.30	0.23	0.38	1.9	1.9	1.9		1.0	0.66
Antimony		**6.00**	ug/L						<0.50			<0.50			0.57			0.94			<0.50			1.9	0.837	11.5	0.5	1.18	1.54	0.56		2.27	1.4
Arsenic		**10.0**	ug/L	1.32	2.90		46.9	49.8	51	47.9	57.3	61	69.1	55.5	49	116	140	81	9.9	12.8	12	49.0	23.3	21	1.57	2.81	7.4	59.8	84.6	21		5.74	4.7
Barium	**2.0**		mg/L	0.0195	0.0341		0.0318	0.1		0.0195	0.442		0.0923	0.111		0.0597	0.107		0.0	0.0938		0.0713	0.122			0.0235		0.0557	0.102			0.167	
Bicarbonate		**10**	mg/L		290			820						970						620						150						350	
Cadmium	**5.0**		ug/L				0.880							0.848																			
Calcium		**1000**	ug/L		67900			153000						274000						140000						70600						339000	
Carbon Disulfide		**5.0**	ug/L																													1.4	
Carbonate		**0.10**	mg/L		0.15			0.25						0.41						0.21												0.60	
Chloride	**250**		mg/L	85	62		34	39	47	73	75	75	20	27	61	37	44	32	76	85	80	62	62	31	8.7	15	78	78	50	25		620	250
Chromium	**0.1**		mg/L	0.0115	0.00542		0.00961	0.00908		0.00635	0.00551		0.00204	0.00128		0.00	0.00148		0.00309	0.0033		0.00434	0.00578		0.00	0.00178		0.00778	0.00			0.00323	
Cobalt		**10.0**	ug/L					1.99			0.853			0.920			0.941			1.39													
Copper	**1**		mg/L		0.0006			0.0348						0.00212								0.000551						0.0115				0.00175	
DO			mg/L		0.40			0.14	0.18		0.29	0.47		0.54	0.3		0.29	0.3		0.46	1.75		0.12	0.5		14.3	0.6		0.48	0.33		0.22	0.2
Fluoranthene		**0.10**	ug/L																									0.060					
Hexachlorobutadiene		**0.10**	ug/L																									0.031					
Iron	**0.3**		mg/L	13.7	7.16		100	129	110	48.8	55.5	64	5.02	48.3	37	61.2	65.9	24	53.2	63.7	51	39.7	36	10	2.06	0.948	3.2	35.4	41.9	13		5.15	4.3
Lead	**0.015**		mg/L											0.0015																			
Magnesium		**1000**	ug/L		29600			75400						47700						44500						17500						62100	
Nickel	**0.1**		mg/L	0.00631	0.0027		0.00327	0.00439		0.00435	0.00218		0.00915	0.0116		0.00348	0.00272		0.00246	0.00208		0.00845	0.00192		0.00624	0.0016		0.014	0.00379			0.0109	
Nitrate as N	**10**		mg/L		0.13																					0.14						0.14	
pH	**6.5-8.5**				6.49			6.25	6.31		5.76	5.78		6.44	6.45		6.56	6.45		6.34	6.3		6.07	6.17		6.46	6.44		6.42	6.12		6.42	6.56
Potassium		**1000**	ug/L		452			5620						4320						1270						7360						287000	
Pyrene		**10.00**	ug/L																									0.051					
Silver	**0.1**		mg/L	0.000793				0.0034																				0.0001					
Sodium	**160**		mg/L	62	42.4		70.8	67.1	72	40.9	38.3	36	26.9	26.6	65	53.7	52.5	46	73.5	69.2	77	69	54.2	43	12.1	7.91	58	91.8	71.8	24		223.0	96
Sulfate	**250**		mg/L		4.7			0.93	<0.28			10		0.93	<0.28			26		0.74	<0.28			260		110	170			23		700	370
Sulfide		**1.0**	mg/L																	0.57						0.57							
TDS	**500**		mg/L	520	440		860	820	970	480	390	460	970	1000	1000	860	890	870	740	790	820	830	670	990	340	370	800	1100	850	660		2600	1600
Terachloroethene		**5.0**	ug/L											0.35																			
Thallium		**1.00**	ug/L	0.336						0.299									0.267			0.295						0.329					
Toluene		**5.0**	ug/L											0.78						0.39													
Total Alkalinity		**50**	mg/L		290			820						970						620						150						350	
Turbidity		**1.00**	NTU		10.0			4.97	1.2		19.8	5.1			3.4		3.41	20		2.35	2.1		1.42	5.7		3.19	4.6		3.21	3		1.99	1.8
Vanadium		**80.0**	ug/L	12.0	4.40		7.25	11.3		5.95	11.6			1.1			2.83		2.99	4.98		6.01	12.5		12.3	41.1		11.7	10.8			1.62	
Zinc	**5**		mg/L	0.013	0.0156		0.0143	0.0234		0.0218	0.0161		0.046	0.0326		0.0107	0.0184		0.0104	0.0153		0.0208	0.0197		0.00907	0.0191		0.0215	0.0138			0.0137	

Exceedence

Q1 = February 2008
Q2 = May 2008
Q3 = September 2008
Total Ammonia
Chloride
Sulfate
TDS
Antimony
Arsenic
Iron
Sodium



NOTE:

1. GROUNDWATER DATA FROM 9-12-08
2. GROUNDWATER ELEVATION GIVEN IN PARENTHESE

U:\SO\OldG\HAZARD\Sarasota\Central Disposal Complex\Arsenic Evaluation\GROUNDWATER COUNTOUR MAP 09-12-08.dwg Oct08,2008 – 5:33pm Plotted By: 9327

PBS&J

SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP
SEPTEMBER 2008

FIGURE

1

Site#	DTW	Elevations	Water/ Elevations	Date
MW3	3.15	23.692	20.542	9/12/2008
MW5	3.36	23.192	19.832	9/12/2008
PS-1	6.75	25.85	19.10	9/12/2008
PS-2	7.51	26.457	18.947	9/12/2008
PS-3	7.90	26.267	18.367	9/12/2008
PS-4	7.47	26.003	18.533	9/12/2008
PD-1s	7.66	26.487	18.827	9/12/2008
PD-1d	12.92	26.237	13.317	9/12/2008
PD-2s	7.50	26.114	18.614	9/12/2008
PD-2d	12.58	25.804	13.224	9/12/2008
MW-1r	4.02	24.428	20.408	9/12/2008
MW8a	10.40	28.637	18.237	9/12/2008
MW-9	15.68	35.112	19.432	9/12/2008
MW-10r	12.76	31.792	19.032	9/12/2008
MW-11r	7.00	26.224	19.224	9/12/2008
MW-12r	6.45	26.634	20.184	9/12/2008
CW8A	7.93	26.132	18.202	9/12/2008
CW9	6.95	26.582	19.632	9/12/2008
CW10r	7.58	26.992	19.412	9/12/2008
CW11r	7.35	25.714	18.364	9/12/2008
STW1	3.10	18.187	21.29	9/12/2008
STW2	3.40	16.305	19.71	9/12/2008
STW3	2.80	16.191	18.99	9/12/2008
STW4	2.90	15.342	18.24	9/12/2008
STW5	2.85	15.788	18.638	9/12/2008
STW6	2.85	15.37	18.22	9/12/2008
STW7	1.60	18.87	20.47	9/12/2008

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date: October 13, 2008

Lois E Rose
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc	Benchmark EnviroAnalytical, Inc.
Address 8 East Tower Circle Ormond Beach, FL 32174	1711 12th Street East Palmetto, FL 34221
Phone Number (386)672-5668	(941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 3, 2008/0752

Test Site ID #: 21455

Report Period: 2008/3rd Qtr. Evaluation Monitoring (year/quarter)

Well Name: MW-8A

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
(X) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): 18.237'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090308 CLMW8A
Lab Order:	F08090264	**Collection Date:**	9/3/2008 8:05:00 AM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A21455
Lab ID:	F08090264-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **TPI**	
Iron	OK 110000 ✓		20	40	µg/L	1 ✓	09/09/08 17:37	55544
Sodium	72000		500	1000	µg/L	1 ✓	09/08/08 21:26	55544
ICP/MS METALS		**SW6020**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **DSK**	
Antimony	✓✓ 0.50	U	0.50	1.0	µg/L	1 ✓	09/12/08 12:36	55544
Arsenic	✓ 51 ✓		0.50	1.0	µg/L	1 ✓	09/11/08 13:51	55544
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	✓✓ 47		0.11	2.5	mg/L	5 ✓	09/06/08 01:38	R71491b
Sulfate	✓ 0.28	U	0.28	2.5	mg/L	5 ✓	09/06/08 01:38	R71491b
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	OK H 12 ✓		0.020	0.050	mg/L	1 ✓	09/16/08 10:48	R71694C
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/9/2008 10:37:21 A**			Analyst: **SSM**	
Solids, Total Dissolved	OK H. 970 ✓		5.0	5.0	mg/L	1 ✓	09/09/08 11:02	55579

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**
FACILITY LOCATION: **4000 Knights Trail Road**
MONITORING_SITE_NUM: **MW-8A**
WACS_WELL: **21455**
DATE: 9.3.08

PURGING DATA

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

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (**15.5** feet – 10.40 feet) X **0.16** (500 ml) gallons/foot ~~=**0.65** X 1.5= **0.975**~~ 0.81 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) *gallons* = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
PURGING INITIATED AT: 0720 ~~10:45~~ ~~**12:50**~~
PURGING ENDED AT: 0750 ~~**13:15**~~
TOTAL VOLUME PURGED (gallons): 2.40 gal

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0740 ~~405~~		4000	250	10.50	6.31	26.66	705	.18	1.2	Yellow	None
0745 ~~1110~~		1250	250	10.55	6.31	26.68	711	.18	3.3	" "	" "
0750 ~~1115~~		1250	250	10.55	6.31	26.71	713	.18	1.2	" "	" "

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**
SAMPLER(S) SIGNATURES:
SAMPLING INITIATED AT: 0752
SAMPLING ENDED AT: 0810
PUMP OR TUBING DEPTH IN WELL (feet): **14**
SAMPLE PUMP FLOW RATE (mL per minute): 250 ~~**300/100**~~ ml
TUBING MATERIAL CODE: **PE**
FIELD DECONTAMINATION: Y N **XX**
FIELD-FILTERED: Y N **XX**
FILTER SIZE: _____ µm
Filtration Equipment Type:
DUPLICATE: Y N **XX**

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE	TOTAL VOL	FINAL		

SEE ATTAHCED CHAIN OF CUSTODY

REMARKS: **Final Distance to water ft. TOC 28.637**

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

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

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

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

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

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date ________
DEP Application No. ________

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex
Address 4000 Knights Trail Road
City Nokomis Zip 34275
Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose
Address 4000 Knights Trail Road
City Nokomis Zip 34275
Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date: ________ ________
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # ________
Analytical Lab Comp QAP # /HRS Certification # E83079
*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.
Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221
Phone Number (386)672-5668 (941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 5, 2008/0912

Test Site ID #: 4509

Report Period: 2008/1st Semi-Annual
(year/quarter)

Well Name: MW-9

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
(X) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): 19.432'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

PAS, Inc. 8 East Tower Cr., Ormond Beach, FL 32174-87 **Date:** *19-Sep-08*

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090508 CLMW9
Lab Order:	F08090326	**Collection Date:**	9/5/2008 9:15:00 AM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A17410
Lab ID:	F08090326-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/9/2008 8:47:00 AM**			Analyst: **TPI**	
Iron	ok ✓37000 ✓		20	40	µg/L	1	09/09/08 19:09	55572
Sodium	✓65000		500	1000	µg/L	1	09/09/08 19:09	55572
ICP/MS METALS		**SW6020**	PrepDate:	**9/9/2008 8:47:00 AM**			Analyst: **DSK**	
Antimony	✓0.57	I	0.50	1.0	µg/L	1	09/16/08 16:41	55572
Arsenic	ok 49✓		0.50	1.0	µg/L	1	09/11/08 14:36	55572
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	✓61		0.11	2.5	mg/L	5	09/12/08 03:55	R71642C
Sulfate	0.28	U	0.28	2.5	mg/L	5	09/12/08 03:55	R71642C
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	ok 7.3✓		0.020	0.050	mg/L	1	09/15/08 14:32	R71694D
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/10/2008 11:00:18**			Analyst: **SSM**	
Solids, Total Dissolved	ok 1000✓	x	5.0	5.0	mg/L	1	09/10/08 12:06	55616

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

Dup

FACILITY NAME: **Central County Solid Waste Disposal**

FACILITY LOCATION: **4000 Knights Trail Road**

MONITORING_SITE_NUM: **MW-9**

WACS_WELL: **4509**

DATE: 9-5-08

PURGING DATA

WELL DIAMETER (inches): **2"**

TUBING DIAMETER (inches): **3/8"**

WELL SCREEN INTERVAL DEPTH: feet to feet

STATIC DEPTH TO WATER (feet):

PURGE PUMP TYPE OR BAILER: **BP**

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (25.6 feet – 15.68 feet) X **0.16** (500 ml) gallons/foot = x 1.5 = 1.58 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **24**

FINAL PUMP OR TUBING DEPTH IN WELL (feet): **24**

PURGING INITIATED AT: 0800

PURGING ENDED AT: 0912

TOTAL VOLUME PURGED (gallons): 4.68gl

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μmhos/cm or μS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0845		2.81gl	250ml	16.30	6.46	27.74	696	.31	3.9	Yellow	None.
0850	1250 ml		250 ml	16.28	6.45	27.75	698	.30	3.4	" "	" "
0855	1250 ml		250ml	16.28	6.45	27.74	698	.30	3.4	" "	" "
0900	1250ml		250ml	16.29	6.45	27.75	699	.30	3.4	" "	" "
0905	1250ml		250ml	16.28	6.45	27.76	699	.30	3.5	" "	" "
0910	1250ml		250ml	16.29	6.45	27.77	699	.30	3.4	" "	" "
		4.68gl			✓						

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**

SAMPLER(S) SIGNATURES: Terry Foxworthy

SAMPLING INITIATED AT 0915

SAMPLING ENDED AT 0920

PUMP OR TUBING DEPTH IN WELL (feet): **24**

SAMPLE PUMP FLOW RATE (mL per minute): 250 ~~**400/300**~~ **ml**

TUBING MATERIAL CODE: **PE**

FIELD DECONTAMINATION: Y N **XX**

FIELD-FILTERED: Y N **XX** FILTER SIZE: ____ μm
Filtration Equipment Type:

DUPLICATE: Y N **XX**

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

See Attached Chain of Custody

REMARKS: **Final Water level , Best purge rate 300 ml (0.077 gpm) TOC 35.112**

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

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

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

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

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

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.

Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221

Phone Number (386)672-5668 (941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 4, 2008/1120

Test Site ID #: 4510

Report Period: 2008/1st Semi-Annual
(year/quarter)

Well Name: MW-10R

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
(X) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): 19.032'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

PAS, Inc. 8 East Tower Cr., Ormond Beach, FL 32174-87 **Date:** *19-Sep-08*

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090408 CLMW10-R
Lab Order:	F08090264	**Collection Date:**	9/4/2008 12:31:00 PM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A4510
Lab ID:	F08090264-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **TPI**	
Iron	✓51000✓		20	40	µg/L	1	09/09/08 17:59	55544
Sodium	✓77000		500	1000	µg/L	1	09/08/08 21:48	55544
ICP/MS METALS		**SW6020**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **DSK**	
Antimony	✓0.50 ✓	U	0.50	1.0	µg/L	1	09/12/08 12:50	55544
Arsenic	ok: 12✓		0.50	1.0	µg/L	1	09/11/08 14:12	55544
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	✓ 80		0.11	2.5	mg/L	5	09/06/08 03:27	R71491c
Sulfate	0.28	U	0.28	2.5	mg/L	5	09/06/08 03:27	R71491c
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	ok 6.1✓		0.020	0.050	mg/L	1	09/15/08 13:49	R71694C
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/10/2008 11:00:18**			Analyst: **SSM**	
Solids, Total Dissolved	ok 820✓		5.0	5.0	mg/L	1	09/10/08 11:43	55616

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

WE = 19.03

FACILITY NAME: **Central County Solid Waste Disposal**
FACILITY LOCATION: **4000 Knights Trail Road**
MONITORING_SITE_NUM: **MW-10R**
WACS_WELL: **4510**
DATE: 9.4.08

PURGING DATA

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

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (21.80 feet – 12.76 feet) X **0.16** (500 ml) gallons/foot = ~~x 1.5 =~~ gallons 1.55

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + *(500 ml) gallons = gallons*

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **19**
FINAL PUMP OR TUBING DEPTH IN WELL (feet): **19**
PURGING INITIATED AT: 1120
PURGING ENDED AT:
TOTAL VOLUME PURGED (gallons): 5 gls

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^{o}C)	COND. (µmhos/cm or [✓ µS/cm])	DISSOLVED OXYGEN (circle [✓ mg/L] or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210		3.12gl	250	13.40	6.34	28.00	660	2.15	2.7	Yellow	None
1215	1250		250	13.40	6.34	28.04	657	2.03	2.8	" "	" "
1220	1250		250	13.40	6.32	28.09	653	1.89	2.3	" "	" "
1225	1250		250	13.40	6.31	28.00	651	1.77	2.2	" "	" "
1230	1250		250	13.42	6.30	28.01	650	1.75	2.1	" "	" "
		5gls			✓			//	//		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**
SAMPLER(S) SIGNATURES: Terry Foxworthy
SAMPLING INITIATED AT: 1231
SAMPLING ENDED AT 1240
PUMP OR TUBING DEPTH IN WELL (feet): **19**
SAMPLE PUMP FLOW RATE (mL per minute): 250 **300/200 ml**
TUBING MATERIAL CODE: **PE**
FIELD DECONTAMINATION: Y N **XX**
FIELD-FILTERED: Y N **XX** FILTER SIZE: _____ µm
Filtration Equipment Type:
DUPLICATE: Y N **XX**

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

See Attached Chain of Custody

REMARKS: **Final Water level Best purge rate 200 ml (0.255 gm), TOC 31.792** – 12.76 = 19.03

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

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

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

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

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

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.

Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221

Phone Number (386)672-5668 (941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 5, 2008/0930

Test Site ID #: 20588

Report Period: 2008/1st Semi-Annual
(year/quarter)

Well Name: MW-11R

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
(X) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): 19.224'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090508 CLMW-11R
Lab Order:	F08090326	**Collection Date:**	9/5/2008 10:51:00 AM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A17412
Lab ID:	F08090326-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/9/2008 8:47:00 AM**			Analyst: **TPI**	
Iron	3200		20	40	µg/L	1	09/09/08 19:13	55572
Sodium	58000		500	1000	µg/L	1	09/09/08 19:13	55572
ICP/MS METALS		**SW6020**	PrepDate:	**9/9/2008 8:47:00 AM**			Analyst: **DSK**	
Antimony	0.50	I	0.50	1.0	µg/L	1	09/16/08 16:44	55572
Arsenic	7.4		0.50	1.0	µg/L	1	09/11/08 14:46	55572
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	78		0.043	1.0	mg/L	2	09/12/08 04:11	R71642C
Sulfate	170		0.11	1.0	mg/L	2	09/12/08 04:11	R71642C
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	0.38		0.020	0.050	mg/L	1	09/15/08 14:33	R71694D
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/11/2008 11:39:48**			Analyst: **SSM**	
Solids, Total Dissolved	800	x	5.0	5.0	mg/L	1	09/11/08 11:47	55647

Data Qualifier Code Key:	I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
	x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**	FACILITY LOCATION: **4000 Knights Trail Road**	
MONITORING_SITE_NUM: **MW-11R**	WACS_WELL: **20588**	DATE: 9-5-06

PURGING DATA

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

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (15.50 feet – 7.00 feet) X (500 ml) gallons/foot = ~~X 1.5~~ x.16 = 1.36 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**	FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**	PURGING INITIATED AT: 0930	PURGING ENDED AT: 1046	TOTAL VOLUME PURGED (gallons): 4.87

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1030 ~~0930~~		3.75	250 ml	16.00	644	27.52	431	.36	3.0	Yellow	None.
1035	1250		250 ml	16.01	6.44	27.43	430	.64	4.7	" "	" "
1040	1250		250 ml	16.02	6.44	27.43	431	.60	4.8	" "	" "
1045	1250		250 ml	1601	6.44	27.44	432	.60	4.6	" "	" "
					/	//	//	//	//		
		4.87									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1047	SAMPLING ENDED AT: 1051
PUMP OR TUBING DEPTH IN WELL (feet): **5**	SAMPLE PUMP FLOW RATE (*mL per minute*): 250 **ml**	TUBING MATERIAL CODE: **PE**	
FIELD DECONTAMINATION: Y N **XX**	FIELD-FILTERED: Y N **XX** FILTER SIZE: _____ µm Filtration Equipment Type:	DUPLICATE: Y N **XX**	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
							App I	
							pp I	
							NH_4	

See Attached Chain of Custody

REMARKS: **FINAL WELL DEPTH** ft., TOC **26.224** - 7.00 = 19.224

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

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

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

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

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

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
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Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.

Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221

Phone Number (386)672-5668 (941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 4, 2008/1000

Test Site ID #: 20589

Report Period: 2008/1st Semi-Annual
(year/quarter)

Well Name: MW-12R

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
(X) Intermediate
( ) Compliance
( ) Other

Ground Water Elevation (NGVD): 20.184'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090408 CLMW12
Lab Order:	F08090264	**Collection Date:**	9/4/2008 11:00:00 AM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A22589
Lab ID:	F08090264-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **TPI**	
Iron	4300		20	40	µg/L	1	09/09/08 18:07	55544
Sodium	96000		500	1000	µg/L	1	09/08/08 21:56	55544
ICP/MS METALS		**SW6020**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **DSK**	
Antimony	1.4		0.50	1.0	µg/L	1	09/12/08 13:09	55544
Arsenic	11		0.50	1.0	µg/L	1	09/11/08 14:22	55544
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	250		0.11	2.5	mg/L	5	09/06/08 03:59	R71491c
Sulfate	370		0.28	2.5	mg/L	5	09/06/08 03:59	R71491c
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	0.66		0.020	0.050	mg/L	1	09/15/08 13:55	R71694C
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/10/2008 11:00:18**			Analyst: **SSM**	
Solids, Total Dissolved	1600		5.0	5.0	mg/L	1	09/10/08 11:46	55616

Data Qualifier Code Key:				
	I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
	x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**
FACILITY LOCATION: **4000 Knights Trail Road**
MONITORING_SITE_NUM: **MW-12R**
WACS_WELL: **20589**
DATE: 9-4-08

PURGING DATA

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

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable
= (15.50 feet – 6.45 feet) X **0.16** (~~500 ml~~) gallons/foot = ~~X 1.5~~ = 1.44 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
PURGING INITIATED AT: 10:00
PURGING ENDED AT: 1055
TOTAL VOLUME PURGED (gallons): 3.~~43~~75 gls

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μmhos/cm or [✓ μS/cm])	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1040		2.50 gls	250	7.00	6.51	28.48	475	.20	2.0	Yellow	NONE
1045	1250		250	7.00	6.51	28.42	475	.21	2.0	" "	" "
1050	1250		250	7.00	6.51	28.40	475	.20	2.0	" "	" "
1055	1250		250	7.00	6.56	28.26	478	.20	1.8	" "	" "
					✓	✓	✓	✓	✓		
		3.~~45~~75 gls									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**
SAMPLER(S) SIGNATURES: Terry Foxworthy
SAMPLING INITIATED AT: 1100
SAMPLING ENDED AT: 1105
PUMP OR TUBING DEPTH IN WELL (feet): **14**
SAMPLE PUMP FLOW RATE (mL per minute): ~~200~~ 250 **ml**
TUBING MATERIAL CODE: **PE**
FIELD DECONTAMINATION: Y N **XX**
FIELD-FILTERED: Y N **XX** FILTER SIZE: _____ μm
Filtration Equipment Type:
DUPLICATE: Y N **XX**

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

See Attached Chain of Custody

REMARKS: **FINAL WELL DEPTH** ft best pump rate 200 ml per minute, TOC 26.634 - 6.45 = 20.18

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

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

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

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

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

Analytical Report

CLIENT: Sarasota County
Lab Order: F08100037
Project: Central County SW As
Lab ID: F08100037-001

Client Sample ID: 092908 CCSMW-12R
Collection Date: 9/29/2008 9:56:00 AM
Sample Description: 20589
Matrix: Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP/MS METALS		**SW6020**	PrepDate:	**10/2/2008 10:24:00**			Analyst: **DSK**	
Arsenic	0.0047		0.00050	0.0010	mg/L	1	10/03/08 12:48	56160

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: CCSWDC		FACILITY LOCATION:	
MONITORING_SITE_NUM: 12R.	WACS_WELL: 2589		DATE: 9-29-08

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: BLADDER.

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (12.00 feet – 7.93 feet) X .16 gallons/foot = 0.65 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0925	PURGING ENDED AT: 0955	TOTAL VOLUME PURGED (gallons): 3.74 g/s

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μmhos/cm or [✓ μS/cm])	DISSOLVED OXYGEN (circle [✓ mg/L] or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0945	2.5gb		500ml	8.50	6.51	27.35	1085	.32	3.3	Tint Yellow	NONE
0950	2500		500m	8.51	6.51	27.35	1086	.33	4.0	" "	" "
0955	2500		500ml	8.50	6.51	27.37	1088	.33	3.6	" "	" "
		3.74									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T. Foxworthy / ESI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 0956	SAMPLING ENDED AT: 0959
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 500 ml	TUBING MATERIAL CODE:	
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y [✓ N] FILTER SIZE: ____ μm Filtration Equipment Type:	DUPLICATE: Y [✓ N]	

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

REMARKS:

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

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

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

Revision Date: February 1, 2004

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex
Address 4000 Knights Trail Road
City Nokomis Zip 34275
Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose
Address 4000 Knights Trail Road
City Nokomis Zip 34275
Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #
Analytical Lab Comp QAP # /HRS Certification # E83079
*Comp QAP # /HRS Certification # E84167

Lab Name	ELAB, Inc	Benchmark EnviroAnalytical, Inc.
Address	8 East Tower Circle Ormond Beach, FL 32174	1711 12th Street East Palmetto, FL 34221
Phone Number	(386)672-5668	(941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 2, 2008/0911

Test Site ID #: 22883

Report Period: 2008/2nd Quarter Evaluation Monitoring
(year/quarter)

Well Name: CW-8A

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
( ) Intermediate
(X) Compliance
( ) Other

Ground Water Elevation (NGVD): 18.202'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090208CW-8A
Lab Order:	F08090086	**Collection Date:**	9/2/2008 9:50:00 AM
Project:	CCSWDC Wells CW-8A	**Sample Description:**	4058A22883
Lab ID:	F08090086-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/4/2008 10:15:00 A**			Analyst: **TPI**	
Iron	64000		20	40	µg/L	1	09/05/08 23:20	55474
Sodium	36000		500	1000	µg/L	1	09/05/08 23:20	55474
ICP/MS METALS		**SW6020**	PrepDate:	**9/4/2008 10:15:00 A**			Analyst: **DSK**	
Antimony	0.50	U	0.50	1.0	µg/L	1	09/08/08 21:04	55474
Arsenic	61		0.50	1.0	µg/L	1	09/09/08 13:04	55474
NITROGEN, NITRATE		**E353.2**	PrepDate:				Analyst: **SUB**	
Nitrogen, Nitrate	0.050	U	0.050	0.20	mg/L	1	09/02/08 16:46	N/A
NITROGEN, NITRATE-NITRITE		**E353.2**	PrepDate:				Analyst: **SUB**	
Nitrogen, Nitrate-Nitrite	0.050	U	0.050	0.20	mg/L	1	09/03/08 10:30	N/A
NITROGEN, NITRITE		**SM4500-NO2 B**	PrepDate:				Analyst: **SUB**	
Nitrogen, Nitrite	0.0050	I	0.0030	0.012	mg/L	1	09/02/08 16:46	N/A
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	75		0.021	0.50	mg/L	1	09/04/08 21:35	R71453B
Sulfate	10		0.055	0.50	mg/L	1	09/04/08 21:35	R71453B
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **HMA**	
Nitrogen, Ammonia (As N)	4.2		0.20	0.50	mg/L	10	09/08/08 13:37	R71495B
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/5/2008 11:05:51 A**			Analyst: **SSM**	
Solids, Total Dissolved	460		5.0	5.0	mg/L	1	09/05/08 11:35	55516

Data Qualifier Code Key:	I Analyte detected below quantitation limits	U Not Detected Above the MDL

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**
FACILITY LOCATION: **4000 Knights Trail Road**
MONITORING_SITE_NUM: **CW-8A**
WACS_WELL: **22883**
DATE: 9.2.08

PURGING DATA

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

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (15.50 feet – 7.93 feet) X .16 (500 ml) gallons/foot = x = 1.21 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
PURGING INITIATED AT: 911
PURGING ENDED AT: 0950
TOTAL VOLUME PURGED (gallons): 5.gls

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0925		2.9ls.	500	8.25	5.85	27.27	414	1.46	4.6	Clear	None
0930	2500		500	8.25	5.83	27.26	376	.80	3.7	" "	" "
0935	2500		500	8.30	5.80	27.25	359	.73	3.5	" "	" "
0940	2500		500	8.45	5.79	27.24	352	.62	4.5	" "	" "
0945	2500		500	8.46	5.78	27.26	342	.47	5.1	" "	" "
0950	2500		500		/	/	/	/	/		
				5.55							

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**
SAMPLER(S) SIGNATURES: Terry Foxworthy
SAMPLING INITIATED AT: 950
SAMPLING ENDED AT: 1005
PUMP OR TUBING DEPTH IN WELL (feet): **14**
SAMPLE PUMP FLOW RATE (mL per minute): ~~300~~ 500 ml
TUBING MATERIAL CODE: **PE**
FIELD DECONTAMINATION: Y N **XX**
FIELD-FILTERED: Y N **XX** FILTER SIZE: _____ µm
Filtration Equipment Type:
DUPLICATE: Y N **XX**

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

See Attached Chain of Custody

REMARKS :**Final SDTW** **the best purge rate was 300ml**. TOC 26.132

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

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

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

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DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date

DEP Application No.

Florida Department of Environmental Protection

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

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.

Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221

Phone Number (386)672-5668 (941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 3, 2008/0900

Test Site ID #: 22884

Report Period: 2008/2nd Quarter Evaluation Monitoring
(year/quarter)

Well Name: CW-9

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type: ( ) Background
( ) Intermediate
(X) Compliance
( ) Other

Ground Water Elevation (NGVD): 19.632'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

PAS, Inc. 8 East Tower Cr., Ormond Beach, FL 32174-87 **Date:** *19-Sep-08*

Analytical Report

CLIENT: Sarasota County
Lab Order: F08090264
Project: CCSWDC Groundwater
Lab ID: F08090264-002

Client Sample ID: 090308 CW-9
Collection Date: 9/3/2008 10:00:00 AM
Sample Description: 4058A22884
Matrix: Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate: **9/8/2008 8:58:00 AM**				Analyst: **TPI**	
Iron	24000		20	40	µg/L	1	09/09/08 17:51	55544
Sodium	46000		500	1000	µg/L	1	09/08/08 21:32	55544
ICP/MS METALS		**SW6020**	PrepDate: **9/8/2008 8:58:00 AM**				Analyst: **DSK**	
Antimony	0.94	I	0.50	1.0	µg/L	1	09/12/08 12:41	55544
Arsenic	81		0.50	1.0	µg/L	1	09/11/08 14:06	55544
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	32		0.11	2.5	mg/L	5	09/06/08 01:53	R71491b
Sulfate	26		0.28	2.5	mg/L	5	09/06/08 01:53	R71491b
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	7.9		0.020	0.050	mg/L	1	09/15/08 13:46	R71694C
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate: **9/9/2008 10:37:21 A**				Analyst: **SSM**	
Solids, Total Dissolved	870		5.0	5.0	mg/L	1	09/09/08 11:04	55579

Data Qualifier Code Key:				
	I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
	x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**
FACILITY LOCATION: **4000 Knights Trail Road**
MONITORING_SITE_NUM: **CW-9**
WACS_WELL: **22884**
DATE: 9-3-08

PURGING DATA

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

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (15.50 feet – 6.95 feet) X (500 ml) gallons/foot = x 1.6= gallons 1.36

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**
PURGING INITIATED AT: 0900
PURGING ENDED AT: 1000
TOTAL VOLUME PURGED (gallons): 3.75 gl

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0932		1.93 gl	250	7.95	6.46	27.15	545	.25	23.7	Yellow	None
0937	1250		250	7.90	6.46	27.13	557	.28	24.0	" "	" "
0942	1250		250	7.90	6.47	27.17	558	.20	25.0	" "	" "
0947	1250		250	7.90	6.46	27.00	568	.27	21.0	" "	" "
0952	1250		250	7.90	6.45	27.03	569	.29	20.0	" "	" "
0957	1250		250	7.90	6.45	27.04	570	.30	20.0	" "	" "

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**
SAMPLER(S) SIGNATURES:
SAMPLING INITIATED AT: 1000
SAMPLING ENDED AT 1030
PUMP OR TUBING DEPTH IN WELL (feet): **14**
SAMPLE PUMP FLOW RATE (mL per minute): 250 mL **300/200 ml**
TUBING MATERIAL CODE: **PE**
FIELD DECONTAMINATION: Y N **XX**
FIELD-FILTERED: Y N **XX** FILTER SIZE: ____ µm
Filtration Equipment Type:
DUPLICATE: Y N **XX**

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

See Attached Chain of Custody

REMARKS: **Final Water leve , Best purge rate 200 ml (0.255 gm). TOC 26.582**

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

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

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

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

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

206

DEP Form # 62-522.900(2)
Form Title Ground Water Monitoring Report
Effective Date
DEP Application No.

Florida Department of Environmental Protection

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

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.

Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221

Phone Number (386)672-5668 (941) 723-9986

PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 3, 2008/1140

Test Site ID #: 22885

Report Period: 2008/2nd Quarter Evaluation Monitoring (year/quarter)

Well Name: CW-10A

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Well Type:
( ) Background
( ) Intermediate
(X) Compliance
( ) Other

Ground Water Elevation (NGVD): 19.412'

or (MSL):

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090308 CW-10R
Lab Order:	F08090264	**Collection Date:**	9/3/2008 12:30:00 PM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A22885
Lab ID:	F08090264-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **TPI**	
Iron	10000		20	40	µg/L	1	09/09/08 17:55	55544
Sodium	43000		500	1000	µg/L	1	09/08/08 21:44	55544
ICP/MS METALS		**SW6020**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **DSK**	
Antimony	1.9		0.50	1.0	µg/L	1	09/12/08 12:45	55544
Arsenic	21		0.50	1.0	µg/L	1	09/11/08 14:09	55544
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	31		0.11	2.5	mg/L	5	09/06/08 02:09	R71491b
Sulfate	260		0.28	2.5	mg/L	5	09/06/08 02:09	R71491b
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	1.5		0.020	0.050	mg/L	1	09/15/08 13:47	R71694C
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/9/2008 10:37:21 A**			Analyst: **SSM**	
Solids, Total Dissolved	990		5.0	5.0	mg/L	1	09/09/08 11:05	55579

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**	FACILITY LOCATION: **4000 Knights Trail Road**	
MONITORING_SITE_NUM: **CW-10R**	WACS_WELL: **22885**	DATE: 9.3.08

PURGING DATA

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

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (15.50 feet – 7.58 feet) X (500 ml) gallons/foot = **x 1**6 = gallons 1.26.

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X / feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**	FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**	PURGING INITIATED AT: 1140	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED (gallons): 2.93

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (μmhos/cm or [✓ μS/cm])	DISSOLVED OXYGEN (circle ~~mg/L~~ or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1212	296	[illegible]	250	7.98	6.19	26.93	640	.50	7.3	Yellow	None.
1217	1250		250	7.99	6.17	26.96	651	.54	6.6	" "	" "
1222	1250		250	7.99	6.18	26.89	630	.50	5.2	" "	" "
1227	1250		250	7.99	6.17	26.89	6.29	.50	5.7	" "	" "
					✓	✓	✓	✓	✓		
		2.93									

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1250
PUMP OR TUBING DEPTH IN WELL (feet): **14**	SAMPLE PUMP FLOW RATE (mL per minute): **300 /ml**	TUBING MATERIAL CODE: **PE**	
FIELD DECONTAMINATION: Y N **XX**	FIELD-FILTERED: Y N **XX** FILTER SIZE: _____ μm Filtration Equipment Type:	DUPLICATE: Y N **XX**	

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

See Attached Chain of Custody

REMARKS: TOC 26. 982 300 ml is the best purge rate.

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

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

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

1.90

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date

DEP Application No.

Florida Department of Environmental Protection

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

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Central County Solid Waste Disposal Complex

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(2) The GMS Identification Number SWD/58/51614

(3) DEP Permit Number 130542-002-SO/01

(4) Authorized Representative Name Lois Rose

Address 4000 Knights Trail Road

City Nokomis Zip 34275

Telephone Number (941) 861-1532

(5) Type of Discharge NA

(6) Method of Discharge NA

Certification

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

Date:

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP # /HRS Certification # E83079

*Comp QAP # /HRS Certification # E84167

Lab Name ELAB, Inc Benchmark EnviroAnalytical, Inc.

Address 8 East Tower Circle Ormond Beach, FL 32174 1711 12th Street East Palmetto, FL 34221

Phone Number (386)672-5668 (941) 723-9986

'PART III ANALYTICAL RESULTS

Facility GMS #: SWD/58/51614

Sampling Date/Time: September 4, 2008/0815

Test Site ID #: 22886

Report Period: 2008/2nd Quarter Evaluation Monitoring
(year/quarter)

Well Name: CW-11A

Well Purged (Y/N): Yes

Classification of Ground Water: G-II

Ground Water Elevation (NGVD): 18.364'

or (MSL):

Well Type: ( ) Background
( ) Intermediate
(X) Compliance
( ) Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

See Attached Analytical Report

* Attach Laboratory Reports

Analytical Report

CLIENT:	Sarasota County	**Client Sample ID:**	090408 CW-11R
Lab Order:	F08090264	**Collection Date:**	9/4/2008 9:12:00 AM
Project:	CCSWDC Groundwater	**Sample Description:**	4058A22886
Lab ID:	F08090264-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **TPI**	
Iron	13000		20	40	µg/L	1	09/09/08 18:03	55544
Sodium	24000		500	1000	µg/L	1	09/08/08 21:52	55544
ICP/MS METALS		**SW6020**	PrepDate:	**9/8/2008 8:58:00 AM**			Analyst: **DSK**	
Antimony	0.56	I	0.50	1.0	µg/L	1	09/12/08 12:55	55544
Arsenic	21		0.50	1.0	µg/L	1	09/11/08 14:14	55544
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	25		0.11	2.5	mg/L	5	09/06/08 03:43	R71491c
Sulfate	23		0.28	2.5	mg/L	5	09/06/08 03:43	R71491c
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	1.9		0.020	0.050	mg/L	1	09/15/08 13:50	R71694C
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/10/2008 11:00:18**			Analyst: **SSM**	
Solids, Total Dissolved	660		5.0	5.0	mg/L	1	09/10/08 11:44	55616

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
x	Value exceeds Maximum Contaminant Level		

ATTACHMENT G

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

GROUNDWATER SAMPLING LOG

FACILITY NAME: **Central County Solid Waste Disposal**	FACILITY LOCATION: **4000 Knights Trail Road**	
MONITORING_SITE_NUM: **CW-11R**	WACS_WELL: **22886**	DATE: 9-4-08

PURGING DATA

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

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (15.50 feet – 7.35 feet) X (500 ml) gallons/foot = **x 16=** 1.30 gallons

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + (500 ml) gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): **14**	FINAL PUMP OR TUBING DEPTH IN WELL (feet): **14**	PURGING INITIATED AT: 815	PURGING ENDED AT: 0910	TOTAL VOLUME PURGED (gallons): 3.7gls

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0847		2gls	500	8.00	6.12	21.76	10	.43	~~43~~ 2.8	Clear	None
0852	1250		500	8.00	6.11	21.72	10	.38	2.7	" "	" "
0857	1250		500	8.00	6.11	21.70	10	.35	2.7	" "	" "
0902	1250		500	8.00	6.11	21.68	10	.34	3.0	" "	" "
0907	1250		500	8.00	6.12	21.68	10	.33	3.0	" "	" "
		3.7gl			//	/	/	/	/		

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

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: **Terry Foxworthy /ES I**	SAMPLER(S) SIGNATURES: Terry Foxworthy	SAMPLING INITIATED AT: 0912	SAMPLING ENDED AT: 0920
PUMP OR TUBING DEPTH IN WELL (feet):	SAMPLE PUMP FLOW RATE (mL per minute): 250 **ml**	TUBING MATERIAL CODE: **PE**	
FIELD DECONTAMINATION: Y N **XX**	FIELD-FILTERED: Y N **XX** FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y N **XX**	

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

REMARKS: TOC 25.714
Rate for purge 100 ml.s

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

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

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

9/24/08

September 19, 2008

Mr. Cesar Rodriguez
Sarasota County
1301 Cattleman Road
Resource Management
Bldg. E
Sarasota, FL 34232

RE: CCSWDC Groundwater

Order No.: F08090326

Dear Mr. Cesar Rodriguez:

PAS, Inc. received 3 samples on 9/8/2008 11:20:00 AM for the analyses presented in the following report.

Analyses are performed with method-required calibration and QA/QC samples, whenever applicable. Method performance, which is based on the calibration and QA/QC data, establishes the validity and certainty of the reported sample results. These data are provided along with the sample results.

Thank you for this opportunity to let Pace Analytical Services, Inc. (Florida) be of service to you. If you have any questions regarding this report, please feel free to call me at (386) 672-5668, extension 304.

Sincerely,

Project Manager
PAS, Inc.
P.O. Box 468
Ormond Beach, FL 32175-0468

THIS DOCUMENT MEETS NELAC
STANDARDS NELAC Certification #E83079

The following acronyms may be utilized within this report:

%REC	Percent Recovery
A	Absent
ABLK	Analytical Method Blank
CG	Confluent Growth
CGB	Confluent Growth Without Coliforms
CGC	Confluent Growth With Coliforms
DUP	Sample Duplicate
LCS	Laboratory Control Spike (may also be appended with an abbreviation indicating spiking level)
MBLK	Preparation Method Blank
MDL	Laboratory Method Detection Limit
MS	Matrix Spike (may also be appended with an abbreviation indicating spiking level)
MSD	Matrix Spike Duplicate (may also be appended with an abbreviation indicating spiking level)
P	Present
PQL	Practical Quantitation Limit
QCS	Alternate source Calibration Verification Standard (may also be reported as analytical LCS in some
RL	Reporting Limit
RPD	Relative Percent Difference
SPK	Spike
TIC	Tentatively Identified Compound
TNTC	Too Numerous To Count

The following notes may apply to analytical results within this report:

Residue (solids) analysis may employ a single, heated drying process of at least 12 hours duration in lieu of employing short, repeated drying cycles, which represents a deviation from the methodology.

Because the EPA-recommended holding time for pH, residual chlorine, chloramines and chlorine dioxide is 15 minutes from time of collection, these analyses are routinely performed outside of their EPA-recommended holding time when performed in the laboratory.

Analytical results for ammonia analysis, or calculated analytical results depending on ammonia analysis, do not include a sample distillation procedure. A study comparing distilled versus non-distilled analytical results has been performed to document the validity of the analysis without prior distillation, and represents equivalent results for the represented project matrices.

Since N-nitrosodiphenylamine decomposes in the GC inlet and cannot be chromatographically resolved from diphenylamine, these compounds are reported as a single analyte in the report.

Since m-cresol and p-cresol cannot be chromatographically resolved, these compounds are reported as a single analyte in the report.

The following certifications may apply to analytical results within this report:

Alabama	DEM	41320
Arizona	DHS	AZ0640
Colorado	DPHE	FL NELAC Reciprocity
Connecticut	DPH	PH-0216
Florida	DOH	E83079
Georgia	DNR	955
Kentucky	DEP	90050
Maine	LCP	2006032
Massachusetts	DEP	M-FL020
Michigan	DEQ	9911
Mississippi	DOH	FL NELAC Reciprocity
Nevada	EP	ELAB FL-00020
New Hampshire	DES	295805
New Jersey	DEP	FL765
New York	DOH	11608
Pennsylvania	DEP	68-00547
Puerto Rico	DOH	FL 00020
South Carolina	DHEC	96027001
Tennessee	DOH	02974
Texas	CEQ	T104704184-05-TX

Case Narrative

CLIENT: Sarasota County
Project: CCSWDC Groundwater
Lab Order: F08090326

I. SAMPLE RECEIVING ACTIVITY

The samples were received and processed by the Sample Custody section of the laboratory. There were no significant logistics or quality problems unless noted below.

II. DATA

The samples were analyzed according to the laboratory's Standard Operating Procedures for the methodologies requested. There were no significant logistics or quality problems unless noted below or in the text of the report. The data were reported in a Parameter Monitoring Report format for Groundwater consistent with FAC 62-520.400, .420, .460.

III. QUALITY CONTROL

There were no significant quality control problems unless noted below or in the text of the report. The MS/MSD data outside accepted recovery limits were due to sample matrix effects of the selected batch QC sample, however, the associated LCS data were within guidance criteria for the method.

Analytical Report

CLIENT: Sarasota County
Lab Order: F08090326
Project: CCSWDC Groundwater
Lab ID: F08090326-003

Client Sample ID: 090508 DUP
Collection Date: 9/5/2008 10:51:00 AM
Sample Description: Field Split
Matrix: Groundwater

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS		**SW6010**	PrepDate:	**9/9/2008 8:47:00 AM**			Analyst: **TPI**	
Iron	38000		20	40	µg/L	1	09/09/08 19:17	55572
Sodium	63000		500	1000	µg/L	1	09/09/08 19:17	55572
ICP/MS METALS		**SW6020**	PrepDate:	**9/9/2008 8:47:00 AM**			Analyst: **DSK**	
Antimony	0.64	I	0.50	1.0	µg/L	1	09/16/08 17:02	55572
Arsenic	51		0.50	1.0	µg/L	1	09/11/08 14:54	55572
ANIONS BY ION CHROMATOGRAPHY		**E300.0**	PrepDate:				Analyst: **ACO**	
Chloride	60		0.11	2.5	mg/L	5	09/12/08 04:27	R71642C
Sulfate	0.28	U	0.28	2.5	mg/L	5	09/12/08 04:27	R71642C
NITROGEN, AMMONIA		**E350.1**	PrepDate:				Analyst: **TM**	
Nitrogen, Ammonia (As N)	7.3		0.020	0.050	mg/L	1	09/15/08 14:34	R71694D
SOLIDS, TOTAL DISSOLVED		**SM2540 C**	PrepDate:	**9/11/2008 11:39:48**			Analyst: **SSM**	
Solids, Total Dissolved	1000	x	5.0	5.0	mg/L	1	09/11/08 11:50	55647

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	U	Not Detected Above the MDL
x	Value exceeds Maximum Contaminant Level		

CLIENT: Sarasota County
Work Order: *F08090326*
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **MB** SampType: **MBLK** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71642**
Client ID: **MB** Batch ID: **R71642C** TestNo: **E300.0** Analysis Date: **9/12/2008** SeqNo: **2129551**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	0.021	U	0.021								
Sulfate	0.055	U	0.055								

Sample ID **LCS** SampType: **LCS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71642**
Client ID: **LCS** Batch ID: **R71642C** TestNo: **E300.0** Analysis Date: **9/12/2008** SeqNo: **2129552**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	4.8		0.021	5.0	0	96.6	90	110			
Sulfate	5.0		0.055	5.0	0	99.2	90	110			

Sample ID **F08090489-001AMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71642**
Batch ID: **R71642C** TestNo: **E300.0** Analysis Date: **9/12/2008** SeqNo: **2129554**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	29		0.021	10	19	98.4	90	110			
Sulfate	12		0.055	10	2.4	96.2	90	110			

Sample ID **F08090381-001AMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71642**
Batch ID: **R71642C** TestNo: **E300.0** Analysis Date: **9/12/2008** SeqNo: **2129571**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	9.3		0.021	10	0	92.7	90	110			
Sulfate	9.6		0.055	10	0	96.1	90	110			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: *Sarasota County*
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **F08090489-001AMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71642**
Batch ID: **R71642C** TestNo: **E300.0** Analysis Date: **9/12/2008** SeqNo: **2129555**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	29		0.021	10	19	99.1	90	110	29	0.247	20
Sulfate	12		0.055	10	2.4	96.8	90	110	12	0.458	20

Sample ID **F08090381-001AMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71642**
Batch ID: **R71642C** TestNo: **E300.0** Analysis Date: **9/12/2008** SeqNo: **2129572**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	9.4		0.021	10	0	93.5	90	110	9.3	0.877	20
Sulfate	9.6		0.055	10	0	96.5	90	110	9.6	0.415	20

Data Qualifier Code Key:				
	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
	U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010_W

Sample ID **MB-55572** SampType: **MBLK** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71557**
Client ID: **MB-55572** Batch ID: **55572** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126655**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	20	U	20								
Sodium	500	U	500								

Sample ID **LCS-55572** SampType: **LCS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71557**
Client ID: **LCS-55572** Batch ID: **55572** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126656**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	2600		20	2500	0	104	90	110			
Sodium	13000		500	12000	0	103	85	115			

Sample ID **F08090326-003BMS** SampType: **MS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71557**
Client ID: **090508 DUP MS** Batch ID: **55572** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126677**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	40000		20	2500	38000	100	75	125			
Sodium	78000		500	12000	63000	114	75	125			

Sample ID **F08090326-003BMSD** SampType: **MSD** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71557**
Client ID: **090508 DUP MSD** Batch ID: **55572** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126679**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	40000		20	2500	38000	92.0	75	125	40000	0.500	20
Sodium	77000		500	12000	63000	108	75	125	78000	1.04	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **MB-55572** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71597**
Client ID: **MB-55572** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129339**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	0.50	U	0.50								

Sample ID **MB-55572** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71728**
Client ID: **MB-55572** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/16/2008** SeqNo: **2135794**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	0.50	U	0.50								

Sample ID **LCS-55572** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71597**
Client ID: **LCS-55572** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129340**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	51		0.50	50	0	102	85	115			

Sample ID **LCS-55572** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71728**
Client ID: **LCS-55572** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/16/2008** SeqNo: **2135797**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	51		0.50	50	0	102	85	115			

Sample ID **F08090326-002BMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71597**
Client ID: **090508 CLMW-11R** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129348**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	59		0.50	50	7.4	102	85	115			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

PAS, Inc.

Date: *19-Sep-08*

CLIENT: Sarasota County
Work Order: *F08090326*
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **F08090326-002BMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71728**
Client ID: **090508 CLMW-11R** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/16/2008** SeqNo: **2135800**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	50		0.50	50	0.50	99.6	85	115			

Sample ID **F08090326-002BMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71597**
Client ID: **090508 CLMW-11R** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129349**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	57		0.50	50	7.4	98.9	85	115	59	2.97	20

Sample ID **F08090326-002BMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/9/2008** RunNo: **71728**
Client ID: **090508 CLMW-11R** Batch ID: **55572** TestNo: **SW6020** **SW3005A** Analysis Date: **9/16/2008** SeqNo: **2135801**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	52		0.50	50	0.50	104	85	115	50	4.23	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID **QCS** SampType: **QCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **QCS** Batch ID: **R71694** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2134973**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	6.2		0.020	6.6	0	95.2	90	110			

Sample ID **CCB** SampType: **ABLK** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **CCB** Batch ID: **R71694** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2134974**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.020	U	0.020								

Sample ID **MB-R71694D** SampType: **MBLK** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **MB-R71694D** Batch ID: **R71694D** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2135059**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.020	U	0.020								

Sample ID **LCS-R71694D** SampType: **LCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **LCS-R71694D** Batch ID: **R71694D** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2135060**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	1.0		0.020	1.0	0	101	90	110			

Sample ID **F08090308-012CMS** SampType: **MS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Batch ID: **R71694D** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2135063**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	1.0	S	0.020	1.0	0.15	**88.6**	90	110			

Data Qualifier Code Key:				
	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
	U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID **F08090308-012CDUP** SampType: **DUP** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Batch ID: **R71694D** ✓ TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2135062**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.15	✓	0.020						0.15	3.97	20

Data Qualifier Code Key:	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
	U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS-TDS

Sample ID **MB-55616** SampType: **MBLK** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Client ID: **MB-55616** Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2131983**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	5.0	U	5.0								

Sample ID **LCS-55616** SampType: **LCS** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Client ID: **LCS-55616** Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2131985**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	300		5.0	300	0	100	90	110			

Sample ID **F08090249-002DDUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2131989**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	330		5.0						5.0 U	3.08	20

Sample ID **F08090326-001ADUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Client ID: **090508 CLMW9 DU** Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2132029**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	1000	x	5.0						5.0 U	0	20

Sample ID **MB-55647** SampType: **MBLK** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/11/2008** RunNo: **71618**
Client ID: **MB-55647** Batch ID: **55647** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/11/2008** SeqNo: **2133456**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	5.0	U	5.0								

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090326
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS-TDS

Sample ID **LCS-55647** SampType: **LCS** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/11/2008** RunNo: **71618**
Client ID: **LCS-55647** Batch ID: **55647** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/11/2008** SeqNo: **2133457**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	310		5.0	300	0	103	90	110			

Sample ID **F08090326-002ADUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/11/2008** RunNo: **71618**
Client ID: **090508 CLMW-11R** Batch ID: **55647** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/11/2008** SeqNo: **2133459**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	800	x	5.0						800	0	20

Sample ID **F08090383-003BDUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/11/2008** RunNo: **71618**
Batch ID: **55647** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/11/2008** SeqNo: **2133479**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	5.0	U	5.0						5.0 U	0	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

9/24/04

The following acronyms may be utilized within this report:

%REC	Percent Recovery
A	Absent
ABLK	Analytical Method Blank
CG	Confluent Growth
CGB	Confluent Growth Without Coliforms
CGC	Confluent Growth With Coliforms
DUP	Sample Duplicate
LCS	Laboratory Control Spike (may also be appended with an abbreviation indicating spiking level)
MBLK	Preparation Method Blank
MDL	Laboratory Method Detection Limit
MS	Matrix Spike (may also be appended with an abbreviation indicating spiking level)
MSD	Matrix Spike Duplicate (may also be appended with an abbreviation indicating spiking level)
P	Present
PQL	Practical Quantitation Limit
QCS	Alternate source Calibration Verification Standard (may also be reported as analytical LCS in some
RL	Reporting Limit
RPD	Relative Percent Difference
SPK	Spike
TIC	Tentatively Identified Compound
TNTC	Too Numerous To Count

The following notes may apply to analytical results within this report:

Residue (solids) analysis may employ a single, heated drying process of at least 12 hours duration in lieu of employing short, repeated drying cycles, which represents a deviation from the methodology.

Because the EPA-recommended holding time for pH, residual chlorine, chloramines and chlorine dioxide is 15 minutes from time of collection, these analyses are routinely performed outside of their EPA-recommended holding time when performed in the laboratory.

Analytical results for ammonia analysis, or calculated analytical results depending on ammonia analysis, do not include a sample distillation procedure. A study comparing distilled versus non-distilled analytical results has been performed to document the validity of the analysis without prior distillation, and represents equivalent results for the represented project matrices.

Since N-nitrosodiphenylamine decomposes in the GC inlet and cannot be chromatographically resolved from diphenylamine, these compounds are reported as a single analyte in the report.

Since m-cresol and p-cresol cannot be chromatographically resolved, these compounds are reported as a single analyte in the report.

The following certifications may apply to analytical results within this report:

Alabama	DEM	41320
Arizona	DHS	AZ0640
Colorado	DPHE	FL NELAC Reciprocity
Connecticut	DPH	PH-0216
Florida	DOH	E83079
Georgia	DNR	955
Kentucky	DEP	90050
Maine	LCP	2006032
Massachusetts	DEP	M-FL020
Michigan	DEQ	9911
Mississippi	DOH	FL NELAC Reciprocity
Nevada	EP	ELAB FL-00020
New Hampshire	DES	295805
New Jersey	DEP	FL765
New York	DOH	11608
Pennsylvania	DEP	68-00547
Puerto Rico	DOH	FL 00020
South Carolina	DHEC	96027001
Tennessee	DOH	02974
Texas	CEQ	T104704184-05-TX

Case Narrative

CLIENT: Sarasota County
Project: CCSWDC Groundwater
Lab Order: F08090264

I. SAMPLE RECEIVING ACTIVITY

The samples were received and processed by the Sample Custody section of the laboratory. There were no significant logistics or quality problems unless noted below.

II. DATA

The samples were analyzed according to the laboratory's Standard Operating Procedures for the methodologies requested. There were no significant logistics or quality problems unless noted below or in the text of the report. The data were reported in a Parameter Monitoring Report format for Groundwater consistent with FAC 62-520.400, .420, .460.

III. QUALITY CONTROL

There were no significant quality control problems unless noted below or in the text of the report. The MS/MSD data outside accepted recovery limits were due to sample matrix effects of the selected batch QC sample, however, the associated LCS data were within guidance criteria for the method.

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **MB** SampType: **MBLK** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Client ID: **MB** Batch ID: **R71491b** TestNo: **E300.0** Analysis Date: **9/5/2008** SeqNo: **2122872**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	0.021	U	0.021								
Sulfate	0.055	U	0.055								

Sample ID **LCS** SampType: **LCS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Client ID: **LCS** Batch ID: **R71491b** TestNo: **E300.0** Analysis Date: **9/5/2008** SeqNo: **2122873**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	5.1		0.021	5.0	0	103	90	110			
Sulfate	5.3		0.055	5.0	0	106	90	110			

Sample ID **F08090248-005AMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491b** TestNo: **E300.0** Analysis Date: **9/5/2008** SeqNo: **2122875**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	52		0.021	10	42	93.3	90	110			
Sulfate	51		0.055	10	42	93.0	90	110			

Sample ID **F08090210-001BMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491b** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122919**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	9.3		0.021	10	0	92.7	90	110			
Sulfate	9.8		0.055	10	0	98.3	90	110			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **F08090248-005AMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491b** TestNo: **E300.0** Analysis Date: **9/5/2008** SeqNo: **2122876**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	52		0.021	10	42	94.7	90	110	52	0.266	20
Sulfate	51		0.055	10	42	94.7	90	110	51	0.316	20

Sample ID **F08090210-001BMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491b** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122920**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	9.3		0.021	10	0	92.6	90	110	9.3	0.0969	20
Sulfate	9.7		0.055	10	0	97.4	90	110	9.8	0.978	20

Sample ID **MB** SampType: **MBLK** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Client ID: **MB** Batch ID: **R71491c** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122924**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	0.021	U	0.021								
Sulfate	0.055	U	0.055								

Sample ID **LCS** SampType: **LCS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Client ID: **LCS** Batch ID: **R71491c** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122925**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	5.1		0.021	5.0	0	102	90	110			
Sulfate	5.2		0.055	5.0	0	105	90	110			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **F08090299-001AMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491c** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122930**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	9.6		0.021	10	0	96.3	90	110			
Sulfate	10		0.055	10	0	101	90	110			

Sample ID **F08090301-002AMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491c** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122940**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	92	S	0.021	10	84	**87.6**	90	110			
Sulfate	99	S	0.055	10	91	**79.2**	90	110			

Sample ID **F08090299-001AMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491c** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122931**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	9.7		0.021	10	0	97.3	90	110	9.6	1.04	20
Sulfate	10		0.055	10	0	102	90	110	10	1.47	20

Sample ID **F08090301-002AMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71491**
Batch ID: **R71491c** TestNo: **E300.0** Analysis Date: **9/6/2008** SeqNo: **2122941**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	93	S	0.021	10	84	**88.2**	90	110	92	0.0630	20
Sulfate	99	S	0.055	10	91	**81.1**	90	110	99	0.187	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010_W

Sample ID **MB-55544** SampType: **MBLK** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71510**
Client ID: **MB-55544** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2125182**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Sodium	500	U	500								

Sample ID **MB-55544** SampType: **MBLK** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71557**
Client ID: **MB-55544** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126630**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	20	U	20								

Sample ID **LCS-55544** SampType: **LCS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71510**
Client ID: **LCS-55544** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2125183**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Sodium	13000		500	12000	0	103	85	115			

Sample ID **LCS-55544** SampType: **LCS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71557**
Client ID: **LCS-55544** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126631**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	2700		20	2500	0	106	90	110			

Sample ID **F08090264-006BMS** SampType: **MS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71510**
Client ID: **090408 CLMW12 M** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2125204**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Sodium	110000		500	12000	96000	118	75	125			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010_W

Sample ID **F08090264-006BMS** SampType: **MS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71557**
Client ID: **090408 CLMW12 M** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126653**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	6800		20	2500	4300	98.8	75	125			
Sodium	110000		500	12000	94000	107	75	125			

Sample ID **F08090264-006BMSD** SampType: **MSD** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71510**
Client ID: **090408 CLMW12 M** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2125205**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Sodium	110000		500	12000	96000	102	75	125	500 U	1.82	20

Sample ID **F08090264-006BMSD** SampType: **MSD** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71557**
Client ID: **090408 CLMW12 M** Batch ID: **55544** TestNo: **SW6010** **SW3005A** Analysis Date: **9/9/2008** SeqNo: **2126654**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	6700		20	2500	4300	95.6	75	125	6800	1.19	20
Sodium	110000		500	12000	94000	99.2	75	125	500 U	0.939	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **MB-55544** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71597**
Client ID: **MB-55544** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129324**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	0.50	U	0.50								

Sample ID **MB-55544** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71599**
Client ID: **MB-55544** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/12/2008** SeqNo: **2132692**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	0.50	U	0.50								

Sample ID **LCS-55544** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71597**
Client ID: **LCS-55544** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129325**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	52		0.50	50	0	104	85	115			

Sample ID **LCS-55544** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71599**
Client ID: **LCS-55544** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/12/2008** SeqNo: **2132694**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	53		0.50	50	0	107	85	115			

Sample ID **F08090264-005BMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71597**
Client ID: **090408 CW-11R MS** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129336**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	73		0.50	50	21	105	85	115			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **F08090264-005BMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71599**
Client ID: **090408 CW-11R MS** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/12/2008** SeqNo: **2132717**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	53		0.50	50	0.56	104	85	115			

Sample ID **F08090264-005BMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71597**
Client ID: **090408 CW-11R MS** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/11/2008** SeqNo: **2129337**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	71		0.50	50	21	100	85	115	73	3.22	20

Sample ID **F08090264-005BMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/8/2008** RunNo: **71599**
Client ID: **090408 CW-11R MS** Batch ID: **55544** TestNo: **SW6020** **SW3005A** Analysis Date: **9/12/2008** SeqNo: **2132718**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	53		0.50	50	0.56	105	85	115	53	0.660	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID **QCS** SampType: **QCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **QCS** Batch ID: **R71694** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2134973**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	6.2		0.020	6.6	0	95.2	90	110			

Sample ID **CCB** SampType: **ABLK** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **CCB** Batch ID: **R71694** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2134974**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.020	U	0.020								

Sample ID **QCS** SampType: **QCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71731**
Client ID: **QCS** Batch ID: **R71694** TestNo: **E350.1** Analysis Date: **9/16/2008** SeqNo: **2135261**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	6.3		0.020	6.6	0	96.0	90	110			

Sample ID **MB-R71694C** SampType: **MBLK** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **MB-R71694C** Batch ID: **R71694C** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2135029**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.020	U	0.020								

Sample ID **LCS-R71694C** SampType: **LCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71694**
Client ID: **LCS-R71694C** Batch ID: **R71694C** TestNo: **E350.1** Analysis Date: **9/15/2008** SeqNo: **2135030**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	1.0		0.020	1.0	0	104	90	110			

Data Qualifier Code Key:
I Analyte detected below quantitation limits
U Not Detected Above the MDL
S Spike Recovery outside accepted recovery limits

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID **F08090249-003EMS**	SampType: **MS**	TestCode: **N-NH3_W**	Units: **mg/L**	Prep Date:	RunNo: **71694**
	Batch ID: **R71694C** ✓	TestNo: **E350.1**		Analysis Date: **9/15/2008** ✓	SeqNo: **2135035**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	5.0		0.020	1.0	4.1	96.6	90	110			

Sample ID **F08090249-003EDUP**	SampType: **DUP**	TestCode: **N-NH3_W**	Units: **mg/L**	Prep Date:	RunNo: **71694**
	Batch ID: **R71694C** ✓	TestNo: **E350.1**		Analysis Date: **9/15/2008** ✓	SeqNo: **2135034**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	4.1		0.020						4.1	0.221	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS-TDS

Sample ID **MB-55579** SampType: **MBLK** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/9/2008** RunNo: **71543**
Client ID: **MB-55579** Batch ID: **55579** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/9/2008** SeqNo: **2129263**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	5.0	U	5.0								

Sample ID **LCS-55579** SampType: **LCS** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/9/2008** RunNo: **71543**
Client ID: **LCS-55579** Batch ID: **55579** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/9/2008** SeqNo: **2129264**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	300		5.0	300	0	100	90	110			

Sample ID **F08090141-001BDUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/9/2008** RunNo: **71543**
Batch ID: **55579** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/9/2008** SeqNo: **2129266**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	210		5.0						5.0 U	0	20

Sample ID **F08090323-002ADUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/9/2008** RunNo: **71543**
Batch ID: **55579** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/9/2008** SeqNo: **2129286**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	2000	x	5.0						5.0 U	0	20

Sample ID **MB-55616** SampType: **MBLK** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Client ID: **MB-55616** Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2131983**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	5.0	U	5.0								

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090264
Project: CCSWDC Groundwater

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS-TDS

Sample ID **LCS-55616** SampType: **LCS** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Client ID: **LCS-55616** Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2131985**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	300		5.0	300	0	100	90	110			

Sample ID **F08090249-002DDUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2131989**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	330		5.0						5.0 U	3.08	20

Sample ID **F08090326-001ADUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/10/2008** RunNo: **71578**
Batch ID: **55616** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/10/2008** SeqNo: **2132029**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	1000	x	5.0						5.0 U	0	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

9/30/08

September 10, 2008

SEP 2008
Resource
Management
Division

Mr. Cesar Rodriguez
Sarasota County
1301 Cattleman Road
Resource Management
Bldg. E
Sarasota, FL 34232

RE: CCSWDC Wells CW-8A

Order No.: F08090086

Dear Mr. Cesar Rodriguez:

PAS, Inc. received 1 sample on 9/3/2008 12:40:00 PM for the analyses presented in the following report.
Analyses are performed with method-required calibration and QA/QC samples, whenever applicable. Method performance, which is based on the calibration and QA/QC data, establishes the validity and certainty of the reported sample results. These data are provided along with the sample results.

Thank you for this opportunity to let Pace Analytical Services, Inc. (Florida) be of service to you. If you have any questions regarding this report, please feel free to call me at (386) 672-5668, extension 304.

Sincerely,

Project Manager
PAS, Inc.
P.O. Box 468
Ormond Beach, FL 32175-0468

THIS DOCUMENT MEETS NELAC
STANDARDS NELAC Certification #E83079

The following acronyms may be utilized within this report:

%REC	Percent Recovery
A	Absent
ABLK	Analytical Method Blank
CG	Confluent Growth
CGB	Confluent Growth Without Coliforms
CGC	Confluent Growth With Coliforms
DUP	Sample Duplicate
LCS	Laboratory Control Spike (may also be appended with an abbreviation indicating spiking level)
MBLK	Preparation Method Blank
MDL	Laboratory Method Detection Limit
MS	Matrix Spike (may also be appended with an abbreviation indicating spiking level)
MSD	Matrix Spike Duplicate (may also be appended with an abbreviation indicating spiking level)
P	Present
PQL	Practical Quantitation Limit
QCS	Alternate source Calibration Verification Standard (may also be reported as analytical LCS in some
RL	Reporting Limit
RPD	Relative Percent Difference
SPK	Spike
TIC	Tentatively Identified Compound
TNTC	Too Numerous To Count

The following notes may apply to analytical results within this report:

Residue (solids) analysis may employ a single, heated drying process of at least 12 hours duration in lieu of employing short, repeated drying cycles, which represents a deviation from the methodology.

Because the EPA-recommended holding time for pH, residual chlorine, chloramines and chlorine dioxide is 15 minutes from time of collection, these analyses are routinely performed outside of their EPA-recommended holding time when performed in the laboratory.

Analytical results for ammonia analysis, or calculated analytical results depending on ammonia analysis, do not include a sample distillation procedure. A study comparing distilled versus non-distilled analytical results has been performed to document the validity of the analysis without prior distillation, and represents equivalent results for the represented project matrices.

Since N-nitrosodiphenylamine decomposes in the GC inlet and cannot be chromatographically resolved from diphenylamine, these compounds are reported as a single analyte in the report.

Since m-cresol and p-cresol cannot be chromatographically resolved, these compounds are reported as a single analyte in the report.

The following certifications may apply to analytical results within this report:

Alabama	DEM	41320
Arizona	DHS	AZ0640
Colorado	DPHE	FL NELAC Reciprocity
Connecticut	DPH	PH-0216
Florida	DOH	E83079
Georgia	DNR	955
Kentucky	DEP	90050
Maine	LCP	2006032
Massachusetts	DEP	M-FL020
Michigan	DEQ	9911
Mississippi	DOH	FL NELAC Reciprocity
Nevada	EP	ELAB FL-00020
New Hampshire	DES	295805
New Jersey	DEP	FL765
New York	DOH	11608
Pennsylvania	DEP	68-00547
Puerto Rico	DOH	FL 00020
South Carolina	DHEC	96027001
Tennessee	DOH	02974
Texas	CEQ	T104704184-05-TX

PAS, Inc. 8 East Tower Cr., Ormond Beach, FL 32174-87

Case Narrative

CLIENT: Sarasota County
Project: CCSWDC Wells CW-8A
Lab Order: F08090086

I. SAMPLE RECEIVING ACTIVITY

The samples were received and processed by the Sample Custody section of the laboratory. There were no significant logistics or quality problems unless noted below. Analysis performed by Benchmark, E84167, are identified on the COC and included in the report. Requested analyses revised after sample arrived at lab, as per client's representative.

II. DATA

The samples were analyzed according to the laboratory's Standard Operating Procedures for the methodologies requested. There were no significant logistics or quality problems unless noted below or in the text of the report. The data were reported in a Parameter Monitoring Report format for Groundwater consistent with FAC 62-520.400,.420, .460.

III. QUALITY CONTROL

There were no significant quality control problems unless noted below or in the text of the report. The MS/MSD data outside accepted recovery limits were due to sample matrix effects of the selected batch QC sample, however, the associated LCS data were within guidance criteria for the method.

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **MB** SampType: **MBLK** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71453**
Client ID: **MB** Batch ID: **R71453B** ✓ TestNo: **E300.0** Analysis Date: **9/4/2008** SeqNo: **2121848**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	0.021	U	0.021								
Sulfate	0.055	U	0.055								

Sample ID **LCS** SampType: **LCS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71453**
Client ID: **LCS** Batch ID: **R71453B** ✓ TestNo: **E300.0** Analysis Date: **9/4/2008** SeqNo: **2121850**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	5.1		0.021	5.0	0	101	90	110			
Sulfate	5.2		0.055	5.0	0	104	90	110			

Sample ID **F08090175-001AMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71453**
Batch ID: **R71453B** ✓ TestNo: **E300.0** Analysis Date: **9/4/2008** SeqNo: **2121858**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	14	S	0.021	10	4.7	90.0	90	110			
Sulfate	16		0.055	10	7.1	93.6	90	110			

Sample ID **F08090191-001BMS** SampType: **MS** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71453**
Batch ID: **R71453B** ✓ TestNo: **E300.0** Analysis Date: **9/4/2008** SeqNo: **2121867**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	140	S	0.021	10	130	**67.9**	90	110			
Sulfate	28		0.055	10	19	95.3	90	110			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID **F08090175-001AMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71453**
Batch ID: **R71453B** TestNo: **E300.0** Analysis Date: **9/4/2008** SeqNo: **2121859**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	14	S	0.021	10	4.7	**89.6**	90	110	14	0.248	20
Sulfate	16		0.055	10	7.1	93.4	90	110	16	0.168	20

Sample ID **F08090191-001BMSD** SampType: **MSD** TestCode: **IC300_W** Units: **mg/L** Prep Date: RunNo: **71453**
Batch ID: **R71453B** TestNo: **E300.0** Analysis Date: **9/4/2008** SeqNo: **2121868**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride	140	S	0.021	10	130	**68.9**	90	110	140	0.0750	20
Sulfate	28		0.055	10	19	95.5	90	110	28	0.0864	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

PAS, Inc. **Date:** *10-Sep-08*

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010_W

Sample ID **MB-55474** SampType: **MBLK** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71375**
Client ID: **MB-55474** Batch ID: **55474** TestNo: **SW6010** **SW3005A** Analysis Date: **9/5/2008** SeqNo: **2123315**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	20	U	20								
Sodium	500	U	500								

Sample ID **LCS-55474** SampType: **LCS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71375**
Client ID: **LCS-55474** Batch ID: **55474** TestNo: **SW6010** **SW3005A** Analysis Date: **9/5/2008** SeqNo: **2123316**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	2800		20	2500	0	112	80	120			
Sodium	13000		500	12000	0	107	80	120			

Sample ID **F08090058-005CMS** SampType: **MS** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71375**
Batch ID: **55474** TestNo: **SW6010** **SW3005A** Analysis Date: **9/5/2008** SeqNo: **2123332**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	3400		20	2500	680	110	75	125			
Sodium	21000		500	12000	7800	108	75	125			

Sample ID **F08090058-005CMSD** SampType: **MSD** TestCode: **ICP-6010_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71375**
Batch ID: **55474** TestNo: **SW6010** **SW3005A** Analysis Date: **9/5/2008** SeqNo: **2123333**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Iron	3400		20	2500	680	110	75	125	3400	0	20
Sodium	22000		500	12000	7800	109	75	125	500 U	0.935	20

Data Qualifier Code Key:	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
	U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **MB-55474** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71424**
Client ID: **MB-55474** Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/6/2008** SeqNo: **2122699**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	0.50	U	0.50								

Sample ID **MB-55474** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71501**
Client ID: **MB-55474** Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2124604**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	0.50	U	0.50								

Sample ID **LCS-55474** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71424**
Client ID: **LCS-55474** Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/6/2008** SeqNo: **2122700**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	52		0.50	50	0	103	85	115			

Sample ID **LCS-55474** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71501**
Client ID: **LCS-55474** Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2124605**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	50		0.50	50	0	99.4	85	115			

Sample ID **F08090058-004CMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71424**
Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/6/2008** SeqNo: **2122702**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	60		0.50	50	6.2	107	85	115			

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **F08090058-004CMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71501**
Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2124615**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	52		0.50	50	0	103	85	115			

Sample ID **F08090058-004CMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71424**
Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/6/2008** SeqNo: **2122705**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	59		0.50	50	6.2	106	85	115	60	0.336	20

Sample ID **F08090058-004CMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **9/4/2008** RunNo: **71501**
Batch ID: **55474** TestNo: **SW6020** **SW3005A** Analysis Date: **9/8/2008** SeqNo: **2124616**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Antimony	51		0.50	50	0	102	85	115	52	1.59	20

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID **QCS** SampType: **QCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71495**
Client ID: **QCS** Batch ID: **R71495** TestNo: **E350.1** Analysis Date: **9/8/2008** SeqNo: **2123933**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	6.2		0.020	6.6	0	95.4	90	110			

Sample ID **CCB** SampType: **ABLK** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71495**
Client ID: **CCB** Batch ID: **R71495** TestNo: **E350.1** Analysis Date: **9/8/2008** SeqNo: **2123934**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.020	U	0.020								

Sample ID **MB-R71495B** SampType: **MBLK** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71495**
Client ID: **MB-R71495B** Batch ID: **R71495B** TestNo: **E350.1** Analysis Date: **9/8/2008** SeqNo: **2123979**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.020	U	0.020								

Sample ID **LCS-R71495B** SampType: **LCS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71495**
Client ID: **LCS-R71495B** Batch ID: **R71495B** TestNo: **E350.1** Analysis Date: **9/8/2008** SeqNo: **2123981**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.92		0.020	1.0	0	92.2	90	110			

Sample ID **F08090068-001BMS** SampType: **MS** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71495**
Batch ID: **R71495B** TestNo: **E350.1** Analysis Date: **9/8/2008** SeqNo: **2123987**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.98	S	0.020	1.0	0.12	**85.8**	90	110			

Data Qualifier Code Key:				
	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
	U	Not Detected Above the MDL		

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID **F08090068-001BDUP** SampType: **DUP** TestCode: **N-NH3_W** Units: **mg/L** Prep Date: RunNo: **71495**
Batch ID: **R71495B** TestNo: **E350.1** Analysis Date: **9/8/2008** SeqNo: **2123985**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Nitrogen, Ammonia (As N)	0.12		0.020						0.12	4.92	20

Data Qualifier Code Key:
I Analyte detected below quantitation limits
U Not Detected Above the MDL
S Spike Recovery outside accepted recovery limits

CLIENT: Sarasota County
Work Order: F08090086
Project: CCSWDC Wells CW-8A

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS-TDS

Sample ID **MB-55516** SampType: **MBLK** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/5/2008** RunNo: **71457**
Client ID: **MB-55516** Batch ID: **55516** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/5/2008** SeqNo: **2125984**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	5.0	U	5.0								

Sample ID **LCS-55516** SampType: **LCS** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/5/2008** RunNo: **71457**
Client ID: **LCS-55516** Batch ID: **55516** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/5/2008** SeqNo: **2125985**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	300		5.0	300	0	100	90	110			

Sample ID **F08090049-003ADUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/5/2008** RunNo: **71457**
Batch ID: **55516** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/5/2008** SeqNo: **2125987**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	540	x	5.0						550	1.83	20

Sample ID **F08090087-002ADUP** SampType: **DUP** TestCode: **SOLIDS-TDS** Units: **mg/L** Prep Date: **9/5/2008** RunNo: **71457**
Batch ID: **55516** TestNo: **SM2540 C** **SM2540 C** Analysis Date: **9/5/2008** SeqNo: **2126007**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Solids, Total Dissolved	340		5.0						5.0 U	2.99	20

Data Qualifier Code Key:

I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
U	Not Detected Above the MDL		

October 06, 2008

Mr. Cesar Rodriguez
Sarasota County
1301 Cattleman Road
Resource Management
Bldg. E
Sarasota, FL 34232

RE: Central County SW As Order No.: F08100037

Dear Mr. Cesar Rodriguez:

PAS, Inc. received 1 sample on 10/1/2008 12:05:00 PM for the analyses presented in the following report.

Analyses are performed with method-required calibration and QA/QC samples, whenever applicable. Method performance, which is based on the calibration and QA/QC data, establishes the validity and certainty of the reported sample results. These data are provided along with the sample results.

Thank you for this opportunity to let Pace Analytical Services, Inc. (Florida) be of service to you. If you have any questions regarding this report, please feel free to call me at (386) 672-5668, extension 304.

Sincerely,

Note: This report was printed and authorized by :

Shawn Horsley

Project Manager
ELAB, Inc.
P.O. Box 468
Ormond Beach, FL 32175-0468

THIS DOCUMENT MEETS NELAC STANDARDS NELAC Certification #E83079

Validity unknown

Digitally signed by Shawn Horsley
DN: cn=Shawn Horsley, o=Pace Analytical, Inc., c=US
Date: 2008.10.06 14:00:18 -05'00'

The following acronyms may be utilized within this report:

%REC	Percent Recovery
A	Absent
ABLK	Analytical Method Blank
CG	Confluent Growth
CGB	Confluent Growth Without Coliforms
CGC	Confluent Growth With Coliforms
DUP	Sample Duplicate
LCS	Laboratory Control Spike (may also be appended with an abbreviation indicating spiking level)
MBLK	Preparation Method Blank
MDL	Laboratory Method Detection Limit
MS	Matrix Spike (may also be appended with an abbreviation indicating spiking level)
MSD	Matrix Spike Duplicate (may also be appended with an abbreviation indicating spiking level)
P	Present
PQL	Practical Quantitation Limit
QCS	Alternate source Calibration Verification Standard (may also be reported as analytical LCS in some
RL	Reporting Limit
RPD	Relative Percent Difference
SPK	Spike
TIC	Tentatively Identified Compound
TNTC	Too Numerous To Count

The following notes may apply to analytical results within this report:

Residue (solids) analysis may employ a single, heated drying process of at least 12 hours duration in lieu of employing short, repeated drying cycles, which represents a deviation from the methodology.

Because the EPA-recommended holding time for pH, residual chlorine, chloramines and chlorine dioxide is 15 minutes from time of collection, these analyses are routinely performed outside of their EPA-recommended holding time when performed in the laboratory.

Analytical results for ammonia analysis, or calculated analytical results depending on ammonia analysis, do not include a sample distillation procedure. A study comparing distilled versus non-distilled analytical results has been performed to document the validity of the analysis without prior distillation, and represents equivalent results for the represented project matrices.

Since N-nitrosodiphenylamine decomposes in the GC inlet and cannot be chromatographically resolved from diphenylamine, these compounds are reported as a single analyte in the report.

Since m-cresol and p-cresol cannot be chromatographically resolved, these compounds are reported as a single analyte in the report.

The following certifications may apply to analytical results within this report:

Alabama	DEM	41320
Arizona	DHS	AZ0640
Colorado	DPHE	FL NELAC Reciprocity
Connecticut	DPH	PH-0216
Florida	DOH	E83079
Georgia	DNR	955
Kentucky	DEP	90050
Maine	LCP	2006032
Massachusetts	DEP	M-FL020
Michigan	DEQ	9911
Mississippi	DOH	FL NELAC Reciprocity
Nevada	EP	ELAB FL-00020
New Hampshire	DES	295805
New Jersey	DEP	FL765
New York	DOH	11608
Pennsylvania	DEP	68-00547
Puerto Rico	DOH	FL 00020
South Carolina	DHEC	96027001
Tennessee	DOH	02974
Texas	CEQ	T104704184-05-TX

WorkOrder Sample Summary

CLIENT: Sarasota County
Project: Central County SW As
Lab Order: F08100037

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
F08100037-001	092908 CCSMW-12R	20589	9/29/2008 9:56:00 AM	10/1/2008

Case Narrative

CLIENT: Sarasota County
Project: Central County SW As
Lab Order: F08100037

I. SAMPLE RECEIVING ACTIVITY

The samples were received and processed by the Sample Custody section of the laboratory. There were no significant logistics or quality problems unless noted below.

II. DATA

The samples were analyzed according to the laboratory's Standard Operating Procedures for the methodologies requested. There were no significant logistics or quality problems unless noted below or in the text of the report. The data were reported in a Parameter Monitoring Report format for Groundwater consistent with FAC 62-520.400,.420, .460.

III. QUALITY CONTROL

There were no significant quality control problems unless noted below or in the text of the report.

CLIENT: Sarasota County
Work Order: F08100037
Project: Central County SW As

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6020_W

Sample ID **MB-56160** SampType: **MBLK** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **10/2/2008** RunNo: **72241**
Client ID: **MB-56160** Batch ID: **56160** TestNo: **SW6020** **SW3005A** Analysis Date: **10/3/2008** SeqNo: **2158229**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	0.50	U	0.50								

Sample ID **LCS-56160** SampType: **LCS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **10/2/2008** RunNo: **72241**
Client ID: **LCS-56160** Batch ID: **56160** TestNo: **SW6020** **SW3005A** Analysis Date: **10/3/2008** SeqNo: **2158230**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	51		0.50	50	0	102	85	115			

Sample ID **F08100037-001AMS** SampType: **MS** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **10/2/2008** RunNo: **72241**
Client ID: **092908 CCSMW-12** Batch ID: **56160** TestNo: **SW6020** **SW3005A** Analysis Date: **10/3/2008** SeqNo: **2158234**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	57		0.50	50	4.7	104	85	115			

Sample ID **F08100037-001AMSD** SampType: **MSD** TestCode: **ICP-6020_W** Units: **µg/L** Prep Date: **10/2/2008** RunNo: **72241**
Client ID: **092908 CCSMW-12** Batch ID: **56160** TestNo: **SW6020** **SW3005A** Analysis Date: **10/3/2008** SeqNo: **2158235**

Analyte	Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Arsenic	57		0.50	50	4.7	106	85	115	57	1.33	20

Data Qualifier Code Key: U Not Detected Above the MDL

F08100037

Elab, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668 ● FAX (386)673-4001
(INSTRUCTIONS ON BACK OF THIS FORM)

CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

FOR LAB USE ONLY
Temp. of Contents: 05 °C (or Received on Ice, ROI)
Condition of Contents: ____
Condition of Seals: ____

FOR LAB USE ONLY
Submission No.

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City: Sarasota State: Fl. Zip Code: 34232
Phone: (941)650-9834
Fax: (941)861-6665

18. Report Type:
☒ Routine
☐ With QC

2. Report to: (if different from above) Cesar Rodriguez
Address:
City: State: Zip Code:
Phone: ( )
Fax: ( )

19. Turnaround Time:
☒ Standard
☐ Rush: / /

3. Client Project Name: Central county Solid waste
4. Client Project No.:
No.: 838418
6. Custody Seal No.:
7. Sampled By: T. Foxworthy
8. Shipping Method:

Water Sample Codes (for Item 13)	Container Codes (for Item 16)
DW = Drinking Water	V = VOA vial
GW = Ground Water	G = glass
SW = Surface Water	P = plastic
PW = Processed Water	M = micro bag/cup
WW = Waste Water	O = other

14.								
15. Preservatives	H	C	N	S	C	C		
16. Containers	V	V	P	P	P	P		
17.								

Preservative Codes (for Item 15)
C = Cool Only
H = Hydrochloric Acid
M = Monochloroacetic Acid
N = Nitric Acid
OH = Sodium Hydroxide
S = Sulfuric Acid
T = Sodium Thiosulfate

Item	9. Sample ID or No.	10. Sample Description	11. Date	Time	12. Comp.	Grab	13. Water (Codes)	Air	Soil	Sludge	Other	Metals Arsenic							20. REMARK	LAB USE ONLY LAB SAMPLE NO.
1	20589	092908 CCSMW-12R	9-29-08	0956		X	GW					A							A: Arsenic	
2																				
3																				
4																				
5																				
6																				
4																				
5																				
6																				

	21. RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1	T. Foxworthy	9-29-08	1100		9/29/08	11:00
2		9-29-08	1255	Wayne Va Cammen	9-29-08	1255
3	Wayne Va Cammen	9-29-08		Bo Rae	10-1-08	0920
4	Bo Rae	10-1-08	0910		10-01-08	12:05

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Equipment Rental Fee: ____
Profile No.:
Quote No.:

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Revised: 1/99

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CHAIN OF CUSTODY RECORD

No. E

Page 1 of 2

FOR LAB USE ONLY
Temp. of Contents: 0.8 °C (or Received on Ice, ROI)
Condition of Contents:
Condition of Seals:

FOR LAB USE ONLY
Submission No. F080 90086

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City Sarasota State Fl. Zip Code 34232
Phone: (941)650-9834
Fax: (941)861-6665

2. Report to: (if different from above) Cesar Rodriguez
Address:
City State Zip Code
Phone: ( )
Fax: ( )

18. Report Type:
☒ Routine
☐ With QC

19. Turnaround Time
☒ Standard
☐ Rush : / /

3. Client Project Name: Central County wells
4. Client Project No.:
No.: 838417
6. Custody Seal No.:
7. Sampled By: Terry Fowxorthy
8. Shipping Method: ice

Water Sample Codes (for Item 13)
DW = Drinking Water
GW = Ground Water
SW = Surface Water
PW = Processed Water
WW = Waste Water

Container Codes (for Item 16)
V = VOA vial
G = glass
P = plastic
M = micro bag/cup
O = other

Preservative Codes (for Item 15)
C = Cool Only
H = Hydrochloric Acid
M = Monochloroacetic Acid
N = Nitric Acid
OH = Sodium Hydroxide
S = Sulfuric Acid
T = Sodium Thiosulfate

14.	8260 VOC's APP I and II	8011 EDB App I & II	8270 App I & II	8081/8082 App I & II	8151 App I & II	8141 App I & II		
15. Preservatives	H	C	C	C	C	C		
16. Containers	V	V	G	G	G	G		

17.

Item	9. Sample ID or No.	10. Sample Description	11. Date	Time	12. Comp.	Grab	13. Water (Codes)	Air	Soil	Sludge	Other	8260 VOC's APP I and II	8011 EDB App I & II	8270 App I & II	8081/8082 App I & II	8151 App I & II	8141 App I & II			20. REMARK	LAB USE ONLY LAB SAMPLE NO.
1	22883090	208CW-8A	9-2-08	0950		X	gw					A,B,C									
2						X	gw						D,E								
3						X	gw							F							
4						X	gw								G						
5						X	gw									H					
6						X	gw										I				

21.	RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1	Terry Fowxorthy	9-2-08	12:00		9/2/08	1200
2		9/2/08	1500	Wayne Ver Cammen	9-2-08	1500
3	Wayne Ver Cammen	9-2-08			9-3-08	0900
4		9-3-08	900		9-3-08	12:40

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Equipment Rental Fee: ________
Profile No.:
Quote No.:

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CHAIN OF CUSTODY RECORD

No. E

Page 2 of 2

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Temp. of Contents: 0.8 °C **(or Received on Ice, ROI)**
Condition of Contents: ____
Condition of Seals: ____

FOR LAB USE ONLY
Submission No. F08090086

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City Sarasota State Fl. Zip Code 34232
Phone: (941)650-9834
Fax: (941)861-6665

18. Report Type:
☒ Routine
☐ With QC

2. Report to: (if different from above) Cesar Rodriguez
Address:
City State Zip Code
Phone: ( )
Fax: ( )

19. Turnaround Time
☒ Standard
☐ **Rush :** __/__/__

3. Client Project Name: Central County wells
4. Client Project No.:
No.: 834717
6. Custody Seal No.:
7. Sampled By: Terry Fowxorthy
8. Shipping Method: ice

Water Sample Codes (for Item 13)
DW = Drinking Water
GW = Ground Water
SW = Surface Water
PW = Processed Water
WW = Waste Water

Container Codes (for Item 16)
V = VOA vial
G = glass
P = plastic
M = micro bag/cup
O = other

Preservative Codes (for Item 15)
C = Cool Only
H = Hydrochloric Acid
M = Monochloroacetic Acid
N = Nitric Acid
OH = Sodium Hydroxide
S = Sulfuric Acid
T = Sodium Thiosulfate

												14.	15. Preservatives	N	S	NaOH	OH	C					
													16. Containers	P	P	P	P	P					
	9. Sample ID or No.	10. Sample Description	11.		12.		13.						17.										
Item			Date	Time	Comp.	Grab	Water (Codes)	Air	Soil	Sludge	Other		Metals App I & II Ca,Fe,Mg,Hg,K, Na	Nutrients App I @ II Total Ammonia-N	Sulfide	Cn	Miscellaneous Inorgs App I & II				20. REMARK	LAB USE ONLY LAB SAMPLE NO.	
1	22883 090208 CW-8A		9-2-08	0950		X	gw						J								K:Total Ammonia N	1	A090046 NO2, NOx, NO3
2				0950		X	gw							K							N:App I & II Bicarbonate		
3						X	gw								L						Carbonate,Chloride,		
4						X	gw									M					Sulfate, TDS		
5						X	gw										N,N'				N':NO2,NO3,NOX		
6						X	gw																

21.	RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1	Terry Fowxorthy	9-2-08	1200	De Atthurs	9/2/08	1200
2	De Atthurs	9/2/08	1500	Wayne Van Cammen	9-2-08	1500
3	Wayne Van Cammen	9-2-08	1530		9-2-08	1530
4		9-3-08	0700	B-200	B	0800

B-200
9-3-08 0910

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9-3-08 12:40

Revised: 1/99

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~~Ormond Beach, FL 32174~~
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CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

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Condition of Contents: ______
Condition of Seals: ______

FOR LAB USE ONLY
Submission No. F08090264

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City Sarasota State Fl. Zip Code 34232
Phone: (941)650-9834
Fax: (941)861-6665

18. Report Type:
☒ Routine
☐ With QC

2. Report to: (if different from above) Cesar Rodriguez
Address:
City State Zip Code
Phone: ( )
Fax: ( )

19. Turnaround Time:
☒ Standard
☐ Rush : / /

3. Client Project Name: Central County wells
4. Client Project No.:
No.: ~~838419~~ ~~838822~~ 838822
6. Custody Seal No.:
7. Sampled By: Terry Fowxorthy
8. Shipping Method:

Water Sample Codes (for Item 13)
DW = Drinking Water
GW = Ground Water
SW = Surface Water
PW = Processed Water
WW = Waste Water

Container Codes (for Item 16)
V = VOA vial
G = glass
P = plastic
M = micro bag/cup
O = other

Preservative Codes (for Item 15)
C = Cool Only
H = Hydrochloric Acid
M = Monochloroacetic Acid
N = Nitric Acid
OH = Sodium Hydroxide
S = Sulfuric Acid
T = Sodium Thiosulfate

											14. 15. Preservatives	S	N	C		
											16. Containers	P	P	P		
	9. Sample ID or No.	10. Sample Description	11.		12.		13.				17.					
Item			Date	Time	Comp.	Grab	Water (Codes)	Air	Soil	Sludge	Other	Nutrients Total Ammonia-N	Metals Antimony, Arsenic, Iron, Sodium	Misc. Inorg. Chloride, Sulfate, TDS	20. REMARK	LAB USE ONLY LAB SAMPLE NO.
1	21455	~~0903~~ CLMW8A	9/3/08	5:05		X	gw					A	B	C		-1
2		CLMW9	—	—		X	gw					A	B	C		—
3		CLMW10-R	—	—		X	gw					A	B	C		—
4		CLMW-11R	—	—		X	gw					A	B	C		—
5		CW-8A	—	—		X	gw					A	B	C		—
6	22584	0903[illegible] CW-9	9/3/08	10:00		X	gw					A	B	C		-2
7	22885	0903[illegible] CW-10R	[illegible]	[illegible]		X	gw					A	B	C		-3
8		CW-11R	—	—		X	gw					A	B	C		—
9		CLMW12	—	—		X	gw					A	B	C		—
10		Dup	—	—		X	gw					A	B	C		—

21.	RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1	[illegible]	9-4-08	1340	Wayne Ve Ammen	9-4-08	1340
2	Wayne Ve Ammen	9-4-08		[illegible]	9-5-08	0900
3	BoRCO	9-5-08	0900	[illegible] 0.5	9-5-08	1200
4						

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Equipment Rental Fee: ______
Profile No.:
Quote No.:

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OK

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CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

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Condition of Contents: ______
Condition of Seals: ______

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Submission No. F08090264

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City Sarasota State Fl. Zip Code 34232
Phone: (941)650-9834
Fax: (941)861-6665

18. Report Type:
☒ Routine
☐ With QC

2. Report to: (if different from above) Cesar Rodriguez
Address:
City State Zip Code
Phone: ( )
Fax: ( )

19. Turnaround Time
☒ Standard
☐ Rush : / /

3. Client Project Name: Central County wells
4. Client Project No.:
No.: ~~838~~ 838417
6. Custody Seal No.:
7. Sampled By: Terry Fowxorthy
8. Shipping Method:

Water Sample Codes (for Item 13)
DW = Drinking Water
GW = Ground Water
SW = Surface Water
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WW = Waste Water

Container Codes (for Item 16)
V = VOA vial
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M = micro bag/cup
O = other

Preservative Codes (for Item 15)
C = Cool Only
H = Hydrochloric Acid
M = Monochloroacetic Acid
N = Nitric Acid
OH = Sodium Hydroxide
S = Sulfuric Acid
T = Sodium Thiosulfate

14. 15. Preservatives: S | N | C
16. Containers: P | P | P
17.

Item	9. Sample ID or No.	10. Sample Description	11. Date	Time	12. Comp.	Grab	13. Water (Codes)	Air	Soil	Sludge	Other	Nutrients Total Ammonia-N	Metals Antimony, Arsenic, Iron, Sodium	Misc. Inorg. Chloride, Sulfate, TDS						20. REMARK	LAB USE ONLY LAB SAMPLE NO.
1		CLMW8A				X	gw					A	B	C							
2		CLMW9				X	gw					A	B	C							
3	4510 9/4/08	CLMW10-R	9/4/08	12:31		X	gw					A	B	C							-4
4		CLMW-11R				X	gw					A	B	C							
5		CW-8A				X	gw					A	B	C							
6		CW-9				X	gw					A	B	C							
7		CW-10R				X	gw					A	B	C							
8	32886 9/4/08	CW-11R	9/4/08	9:12		X	gw					A	B	C							-5
9	20589 9/4/08	CLMW12	9/4/08	11:00		X	gw					A	B	C							-6
10		Dup				X	gw					A	B	C							

21. RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1 Terry Foxworthy	9.4.08	1330	Wayne VerCammen	9-4-08	1340
2 Wayne VerCammen	9-4-08		BOX 2020	9-5-08	0900
3 BOX 2020	9-5-08	0900	[illegible]	9-5-8	12:00
4					

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Equipment Rental Fee: ______
Profile No.:
Quote No.:

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Revised: 1/99

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CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

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Condition of Contents: ____
Temp. of Contents: ____ °C (or Received on Ice, ROI)
Condition of Seals: ____

FOR LAB USE ONLY
Submission No.

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City Sarasota State Fl. Zip Code 34232
Phone: (941)650-9834
Fax: (941)861-6665

2. Report to: (if different from above) Cesar Rodriguez
Address:
City State Zip Code
Phone: ( )
Fax: ( )

3. Client Project Name: Central County wells
4. Client Project No.:
No.: 838417
6. Custody Seal No.:
7. Sampled By: Terry Fowxorthy
8. Shipping Method: Ice

18. Report Type:
☒ Routine
☐ With QC

19. Turnaround Time
☒ Standard
☐ Rush : _/_/_

Water Sample Codes (for Item 13)
DW = Drinking Water
GW = Ground Water
SW = Surface Water
PW = Processed Water
WW = Waste Water

Container Codes (for Item 16)
V = VOA vial
G = glass
P = plastic
M = micro bag/cup
O = other

Preservative Codes (for Item 15)
C = Cool Only
H = Hydrochloric Acid
M = Monochloroacetic Acid
N = Nitric Acid
OH = Sodium Hydroxide
S = Sulfuric Acid
T = Sodium Thiosulfate

14.								
15. Preservatives	S	N	C					
16. Containers	P	P	P					
17.								

Item	9. Sample ID or No.	10. Sample Description	11. Date	Time	12. Comp.	Grab	13. Water (Codes)	Air	Soil	Sludge	Other	Nutrients Total Ammonia-N	Metals Antimony, Arsenic, Iron, Sodium	Misc. Inorg. Chloride, Sulfate, TDS						20. REMARK	LAB USE ONLY LAB SAMPLE NO.
1		CLMW8A				X	gw					A	B	C							
2	090508	CLMW9	9.5.08	0915		X	gw					A	B	C							
3		CLMW10-R				X	gw					A	B	C							
4	090508	CLMW-11R	9.5.08	1051		X	gw					A	B	C							
5		CW-8A				X	gw					A	B	C							
6		CW-9				X	gw					A	B	C							
7		CW-10R				X	gw					A	B	C							
8		CW-11R				X	gw					A	B	C							
9		CLMW12				X	gw					A	B	C							
10	090508	Dup	9.5.08			X	gw					A	B	C							

21.	RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1		9.5.08	1130		9/5/08	11:30
2		9/5/08	1338	Wayne Ver Ammen	9-5-08	1338
3						
4						

FOR LAB USE ONLY
Sampling Fee: ____ Hrs.
Equipment Rental Fee: ____
Profile No.:
Quote No.:

DISTRIBUTION: White with report; make copies as needed

Revised: 1/99

Elab, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386)672-5668 ● FAX (386)673-4001
(INSTRUCTIONS ON BACK OF THIS FORM)

CHAIN OF CUSTODY RECORD

No. E

Page 1 of 1

FOR LAB USE ONLY
Temp. of Contents: ______°C (or Received on Ice, ROI)
Condition of Contents: ______
Condition of Seals: ______

FOR LAB USE ONLY
Submission No. E0809326

1. Client: (Company or Individual) Sarasota County Environmental Services
Address: 1301 Cattlemen Rd. Bldg E
City Sarasota State Fl. Zip Code 34232
Phone: (941)650-9834
Fax: (941)861-6665

2. Report to: (if different from above) Cesar Rodriguez
Address:
City State Zip Code
Phone: ( )
Fax: ( )

18. Report Type:
☒ Routine
☐ With QC

19. Turnaround Time
☒ Standard
☐ Rush: / /

3. Client Project Name: Central County wells
4. Client Project No.:
No.: 838417
6. Custody Seal No.:
7. Sampled By: Terry Fowxorthy
8. Shipping Method: Ice

Water Sample Codes (for Item 13)
- DW = Drinking Water
- GW = Ground Water
- SW = Surface Water
- PW = Processed Water
- WW = Waste Water

Container Codes (for Item 16)
- V = VOA vial
- G = glass
- P = plastic
- M = micro bag/cup
- O = other

14.
15. Preservatives: S N C
16. Containers: P P P
17.

Preservative Codes (for Item 15)
- C = Cool Only
- H = Hydrochloric Acid
- M = Monochloroacetic Acid
- N = Nitric Acid
- OH = Sodium Hydroxide
- S = Sulfuric Acid
- T = Sodium Thiosulfate

Item	9. Sample ID or No.	10. Sample Description	11. Date	Time	12. Comp.	Grab	13. Water (Codes)	Air	Soil	Sludge	Other	Nutrients Total Ammonia- N	Metals Antimony, Arsenic, Iron, Sodium	Misc. Inorg. Chloride, Sulfate, TDS	20. REMARK	LAB USE ONLY LAB SAMPLE NO.
1		CLMW8A				X	gw					A	B	C		
2	090508	CLMW9	9.5.08	0915		X	gw					A	B	C		
3		CLMW10-R				X	gw					A	B	C		
4	090508	CLMW-11R	9.5.08	1051		X	gw					A	B	C		
5		CW-8A				X	gw					A	B	C		
6		CW-9				X	gw					A	B	C		
7		CW-10R				X	gw					A	B	C		
8		CW-11R				X	gw					A	B	C		
9		CLMW12				X	gw					A	B	C		
10	090508	Dup	9.5.08			X	gw					A	B	C		

21.	RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME
1		9.5.08	1130		9/5/08	11:30
2		9/5/08	1338	Wayne VerCammen	9-5-8	1338
3	Wayne VerCammen	9-5-08			9-8-08	0700
4		9-8-08	0705		9-8-8	1120

FOR LAB USE ONLY
Sampling Fee: ________ Hrs.
Equipment Rental Fee: ________
Profile No.:
Quote No.:

0.2

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Revised: 1/99