

SCS ENGINEERS

December 23, 2008
File No. 09208040.02

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Subject: Citrus County Central Landfill
Quarterly Leachate Sampling – Fourth Quarter 2008
Permit No. 21375-008-SO/01

Dear Mr. Morris:

SCS Engineers (SCS) is providing the Fourth Quarter Leachate Effluent monitoring results on behalf of the Citrus County Solid Waste Management Division (County) for the Central Landfill located in Citrus County, Florida (the site). This report provides copies of the final laboratory reports, field forms, and a CD containing an electronic copy of this report and the electronic data deliverable (EDD) in the “validator” format provided by Pace Analytical Services, Inc. (Pace).

The leachate effluent sample was analyzed in compliance with the permit and for the quarterly parameters listed in Specific Condition Part E.9.b.2 (quarterly) of the permit. The resulting data from the quarterly sampling event are included in Attachment 1 (Effluent data is located on page 6 of 16 of the laboratory analytical report.). These concentrations are similar to historic concentrations. With the exception of sodium, chloride, and total dissolved solids (TDS), the leachate effluent sample complied with the groundwater standards and minimum criteria referenced in Florida Administrative Code (FAC) Chapters 62-520.420 and 62-520.400, respectively. As per Specific Condition Part E.9.b, sodium, chloride, and TDS are not required to meet the groundwater standards and minimum criteria at the discharge point; however they must comply at the edge of the zone of discharge along the western boundary.

Fourth Quarter 2008 leachate quality sampling and physical readings and measurements were performed by SCS. Fourth Quarter 2008 leachate quality analyses were performed by Pace. Field work, sampling methodologies, data evaluation, and data Quality Assurance/Quality Control (QA/QC) were conducted in accordance with FAC Chapter 62-160 Standard Operating Procedures (DEP-SOP-001/01) and the SCS quality manual. Laboratory analyses were performed in accordance with Chapter 62-160, FAC DEP-SOP-001/01. Pace is certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP).

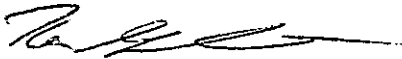
Mr. John Morris, P.G.
December 23, 2008
Page 2

SCS mobilized to the site on October 15, 2008 to collect leachate samples following the FDEP Standard Operating Procedures (SOPs) as guidance for the collection of these samples. Copies of the laboratory report and field forms are presented in Attachment 1.

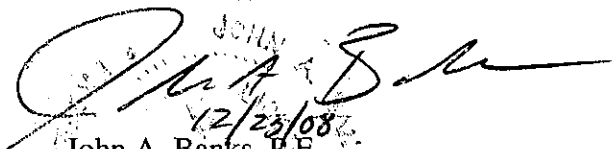
Monthly samples of the leachate effluent were analyzed for the parameters listed in Specific Condition Part E.9.b.2 (monthly) of the Permit. The monthly samples are collected by the site and analyzed by their contract laboratory. The analytical laboratory reports from the monthly sampling events for October, November, and December of 2008 are included in Attachment 2.

If you have any questions regarding this report, please contact the undersigned at (813) 621-0080.

Sincerely,



Ken Guilbeault, LEP
Senior Project Professional



John A. Banks, P.E.
Project Director

SCS ENGINEERS

KEG/JAB:keg

cc: Susan Metcalfe – Citrus County

Attachments

DEP Form #	<u>62-522.900(2)</u>
Form Title	<u>Ground Water Monitoring Report</u>
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

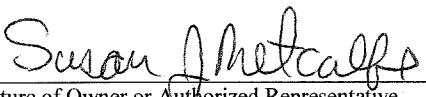
Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name Citrus County Central Landfill
- Address PO BOX 340
- City Lecanto Zip 34460
- Telephone Number (352) 527-7670
- (2) Facility WACS Number SWD/09/39859
- (3) DEP Permit Number 21375-008-SO/01
- (4) Authorized Representative Name Susan Metcalfe, P.G., Director of Solid Waste
- Address PO BOX 340
- City Lecanto Zip 34460
- Telephone Number (352) 527-7670
- (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: 12/23/2008 
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # NA

Analytical Lab Comp QAP # /HRS Certification # NELAP Certification E83079

Lab Name Pace Analytical Services, Inc.

Address 8 East Tower Circle, Ormond Beach, FL 32174

Phone Number (386) 672-5668

ATTACHMENT 1
LABORATORY ANALYTICAL RESULTS
AND FIELD FORMS

November 06, 2008

Mr. Mark Tumlin
SCS Engineers
4041 Park Oaks Blvd.
Suite100
Tampa, FL 33610

RE: 09208040.02/Citrus County Leachate Sample

Order No.: F08100732

Dear Mr. Mark Tumlin:

PAS, Inc. received 3 samples on 10/16/2008 11:05:00 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 samples, establishes the validity and certainty of the reported sample results. This data is provided along with the sample results when requested.

Thank you for this opportunity to be of service. If you have any questions regarding this data, please feel free to call me at (386) 672-5668, extension 327.

Sincerely,
Jeff Baylor



Project Manager
ELAB, 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: SCS Engineers
Project: 09208040.02/Citrus County Leachate Sample
Lab Order: F08100732

I. SAMPLE RECEIVING/ CUSTODY

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. ANALYTICAL 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.

III. QUALITY CONTROL

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

SW8011: The Continuing Calibration Verification standard (CCV) recovery for target compound Ethylene Dibromide exceeded method guidance criteria (high biased). However, all samples associated with this analytical sequence are reported because these target compounds were not detected in any of them.

SW8011: The initial calibration verification standard (ICV/QCS) recovery for target compound Ethylene Dibromide exceeded method guidance criteria (high biased). However, all samples associated with this calibration are reported because these target compounds were not detected in any of them.

Analytical Report

CLIENT: SCS Engineers	Client Sample ID: Equip Blank
Lab Order: F08100732	Collection Date: 10/15/2008 11:50:00 AM
Project: 09208040.02/Citrus County Leachate Sample	Sample Description:
Lab ID: F08100732-001	Matrix: Process Water

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS			SW6010		PrepDate: 10/20/2008 8:45:00		Analyst: TPI	
Sodium	0.50	U	0.50	1.0	mg/L	1	10/20/08 16:37	56565
8011: EDB AND DBCP			SW8011		PrepDate: 10/29/2008 3:40:00		Analyst: LMA	
Ethylene Dibromide	0.0064	U	0.0064	0.010	µg/L	1	10/31/08 07:58	56807
8260: VOLATILE ORGANIC COMPOUNDS			SW8260		PrepDate: 10/17/2008 8:00:00		Analyst: TB	
Benzene	0.50	U	0.50	1.0	µg/L	1	10/17/08 17:45	56618
Ethylbenzene	0.50	U	0.50	1.0	µg/L	1	10/17/08 17:45	56618
Toluene	0.50	U	0.50	1.0	µg/L	1	10/17/08 17:45	56618
Vinyl chloride	0.53	U	0.53	1.0	µg/L	1	10/17/08 17:45	56618
Xylenes, Total	1.0	U	1.0	3.0	µg/L	1	10/17/08 17:45	56618
Surr: 4-Bromofluorobenzene	88.3		0	70-114	%REC	1	10/17/08 17:45	56618
Surr: Dibromofluoromethane	104		0	88-117	%REC	1	10/17/08 17:45	56618
Surr: 1,2-Dichloroethane-d4	103		0	86-125	%REC	1	10/17/08 17:45	56618
Surr: Toluene-d8	103		0	87-113	%REC	1	10/17/08 17:45	56618
ANIONS BY ION CHROMATOGRAPHY			E300.0		PrepDate:		Analyst: ACO	
Chloride	0.15	I	0.021	0.50	mg/L	1	10/16/08 22:51	R72641b
NITROGEN, AMMONIA			E350.1		PrepDate:		Analyst: TKE	
Nitrogen, Ammonia (As N)	0.020	U	0.020	0.050	mg/L	1	10/21/08 14:15	R72714H
SOLIDS, TOTAL DISSOLVED			SM2540 C		PrepDate: 10/21/2008		Analyst: TM	
Solids, Total Dissolved	5.0	U	5.0	5.0	mg/L	1	10/21/08 15:45	56587

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

Analytical Report

CLIENT: SCS Engineers	Client Sample ID: Leachate Effluent
Lab Order: F08100732	Collection Date: 10/15/2008 12:10:00 PM
Project: 09208040.02/Citrus County Leachate Sample	Sample Description:
Lab ID: F08100732-002	Matrix: Process Water

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
ICP METALS			SW6010		PrepDate: 10/20/2008 8:45:00		Analyst: JAS	
Sodium	570		5.0	10	mg/L	10	10/22/08 16:01	56565
8011: EDB AND DBCP			SW8011		PrepDate: 10/24/2008 2:00:00		Analyst: LMA	
Ethylene Dibromide	0.0061	U	0.0061	0.0099	µg/L	1	10/25/08 06:53	56692
8260: VOLATILE ORGANIC COMPOUNDS			SW8260		PrepDate: 10/17/2008 8:00:00		Analyst: TB	
Benzene	0.50	U	0.50	1.0	µg/L	1	10/17/08 18:16	56618
Ethylbenzene	0.50	U	0.50	1.0	µg/L	1	10/17/08 18:16	56618
Toluene	0.50	U	0.50	1.0	µg/L	1	10/17/08 18:16	56618
Vinyl chloride	0.53	U	0.53	1.0	µg/L	1	10/17/08 18:16	56618
Xylenes, Total	1.0	U	1.0	3.0	µg/L	1	10/17/08 18:16	56618
Surr: 4-Bromofluorobenzene	87.4		0	70-114	%REC	1	10/17/08 18:16	56618
Surr: Dibromofluoromethane	105		0	88-117	%REC	1	10/17/08 18:16	56618
Surr: 1,2-Dichloroethane-d4	103		0	86-125	%REC	1	10/17/08 18:16	56618
Surr: Toluene-d8	103		0	87-113	%REC	1	10/17/08 18:16	56618
ANIONS BY ION CHROMATOGRAPHY			E300.0		PrepDate:		Analyst: ACO	
Chloride	940	x	0.32	7.5	mg/L	15	10/16/08 23:07	R72641b
NITROGEN, AMMONIA			E350.1		PrepDate:		Analyst: TKE	
Nitrogen, Ammonia (As N)	0.094		0.020	0.050	mg/L	1	10/21/08 14:20	R72714H
SOLIDS, TOTAL DISSOLVED			SM2540 C		PrepDate: 10/21/2008		Analyst: TM	
Solids, Total Dissolved	2400	x	5.0	5.0	mg/L	1	10/21/08 15:48	56587

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

Analytical Report

CLIENT:	SCS Engineers	Client Sample ID:	Trip Blank
Lab Order:	F08100732	Collection Date:	10/15/2008
Project:	09208040.02/Citrus County Leachate Sample	Sample Description:	
Lab ID:	F08100732-003	Matrix:	Aqueous

Analyses	Result	Qual	MDL	PQL	Units	DF	Date Analyzed	Batch ID
8260: VOLATILE ORGANIC COMPOUNDS		SW8260		PrepDate: 10/17/2008 8:00:00		Analyst: TB		
Benzene	0.50	U	0.50	1.0	µg/L	1	10/18/08 01:29	56618
Ethylbenzene	0.50	U	0.50	1.0	µg/L	1	10/18/08 01:29	56618
Toluene	0.50	U	0.50	1.0	µg/L	1	10/18/08 01:29	56618
Vinyl chloride	0.53	U	0.53	1.0	µg/L	1	10/18/08 01:29	56618
Xylenes, Total	1.0	U	1.0	3.0	µg/L	1	10/18/08 01:29	56618
Surr: 4-Bromofluorobenzene	83.6		0	70-114	%REC	1	10/18/08 01:29	56618
Surr: Dibromofluoromethane	104		0	88-117	%REC	1	10/18/08 01:29	56618
Surr: 1,2-Dichloroethane-d4	103		0	86-125	%REC	1	10/18/08 01:29	56618
Surr: Toluene-d8	102		0	87-113	%REC	1	10/18/08 01:29	56618

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

Code Key:

CLIENT: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID	MB-56692	SampType:	MBLK	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/24/2008	RunNo:	72968	
Client ID:	MB-56692	Batch ID:	56692	TestNo:	SW8011	SW8011		Analysis Date:	10/25/2008	SeqNo:	2187115	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide 0.0062 U 0.0062

Sample ID	LCS-56692	SampType:	LCS	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/24/2008	RunNo:	72968	
Client ID:	LCS-56692	Batch ID:	56692	TestNo:	SW8011	SW8011		Analysis Date:	10/25/2008	SeqNo:	2187116	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide 0.21 0.0062 0.25 0 85.6 60 140

Sample ID	LCSD-56692	SampType:	LCSD	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/24/2008	RunNo:	72968	
Client ID:	LCSD-56692	Batch ID:	56692	TestNo:	SW8011	SW8011		Analysis Date:	10/25/2008	SeqNo:	2187117	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide 0.22 0.0062 0.25 0 90.0 60 140 0.21 5.01 40

Sample ID	F08100934-003BMS	SampType:	MS	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/24/2008	RunNo:	72968	
		Batch ID:	56692	TestNo:	SW8011	SW8011		Analysis Date:	10/25/2008	SeqNo:	2187143	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide 0.49 0.011 0.44 0 112 60 140

Sample ID	F08100934-003BMSD	SampType:	MSD	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/24/2008	RunNo:	72968	
		Batch ID:	56692	TestNo:	SW8011	SW8011		Analysis Date:	10/25/2008	SeqNo:	2187144	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide 0.49 0.011 0.44 0 111 60 140 0.49 0.218 40

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

CLIENT: SCS Engineers

Work Order: F08100732

Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID	MB-56807	SampType:	MBLK	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	73221	
Client ID:	MB-56807	Batch ID:	56807	TestNo:	SW8011	SW8011		Analysis Date:	10/31/2008	SeqNo:	2199274	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide	0.0062	U	0.0062
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Sample ID	LCS-56807	SampType:	LCS	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	73221	
Client ID:	LCS-56807	Batch ID:	56807	TestNo:	SW8011	SW8011		Analysis Date:	10/31/2008	SeqNo:	2199275	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide	0.22		0.0062	0.25	0	89.2	60	140
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Sample ID	LCSD-56807	SampType:	LCSD	TestCode:	8011_W	Units:	µg/L	Prep Date:	10/29/2008	RunNo:	73221	
Client ID:	LCSD-56807	Batch ID:	56807	TestNo:	SW8011	SW8011		Analysis Date:	10/31/2008	SeqNo:	2199276	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylene Dibromide	0.26		0.0062	0.25	0	102	60	140	0.22	13.4	40
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Data	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
Qualifier	U	Not Detected Above the MDL		

Code Key:

CLIENT: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID	MB-56618	SampType:	MBLK	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/17/2008	RunNo:	72798	
Client ID:	MB-56618	Batch ID:	56618	TestNo:	SW8260		SW5030A	Analysis Date:	10/17/2008	SeqNo:	2179578	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Benzene	0.50	U	0.50									
Ethylbenzene	0.50	U	0.50									
Toluene	0.50	U	0.50									
Vinyl chloride	0.53	U	0.53									
Xylenes, Total	1.0	U	1.0									
Surr: 4-Bromofluorobenzene	36		0	40	0	91.2	70	114				
Surr: Dibromofluoromethane	42		0	40	0	106	88	117				
Surr: 1,2-Dichloroethane-d4	42		0	40	0	106	86	125				
Surr: Toluene-d8	42		0	40	0	105	87	113				

Sample ID	LCS-56618	SampType:	LCS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/17/2008	RunNo:	72798	
Client ID:	LCS-56618	Batch ID:	56618	TestNo:	SW8260		SW5030A	Analysis Date:	10/17/2008	SeqNo:	2179580	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylbenzene	18		0.50	20	0	90.4	79	140				
Toluene	22		0.50	20	0	108	69	140				
Vinyl chloride	19		0.53	20	0	94.0	62	140				
Surr: 4-Bromofluorobenzene	43		0	40	0	106	70	114				
Surr: Dibromofluoromethane	42		0	40	0	104	88	117				
Surr: 1,2-Dichloroethane-d4	41		0	40	0	104	86	125				
Surr: Toluene-d8	42		0	40	0	105	87	113				

Sample ID	F08100732-003AMS	SampType:	MS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/17/2008	RunNo:	72798	
Client ID:	Trip Blank MS	Batch ID:	56618	TestNo:	SW8260		SW5030A	Analysis Date:	10/18/2008	SeqNo:	2179597	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Ethylbenzene	20		0.50	20	0	99.0	79	140				
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Data I Analyte detected below quantitation limits S Spike Recovery outside accepted recovery limits
Qualifier U Not Detected Above the MDL
Code Key:

CLIENT: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_W

Sample ID	F08100732-003AMS	SampType:	MS	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/17/2008	RunNo:	72798	
Client ID:	Trip Blank MS	Batch ID:	56618	TestNo:	SW8260	SW5030A		Analysis Date:	10/18/2008	SeqNo:	2179597	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Toluene		23		0.50	20	0	114	69	140			
Vinyl chloride		25		0.53	20	0	124	62	140			
Surr: 4-Bromofluorobenzene		43		0	40	0	108	70	114			
Surr: Dibromofluoromethane		42		0	40	0	105	88	117			
Surr: 1,2-Dichloroethane-d4		41		0	40	0	103	86	125			
Surr: Toluene-d8		42		0	40	0	106	87	113			

Sample ID	F08100732-003AMSD	SampType:	MSD	TestCode:	8260_W	Units:	µg/L	Prep Date:	10/17/2008	RunNo:	72798	
Client ID:	Trip Blank MSD	Batch ID:	56618	TestNo:	SW8260	SW5030A		Analysis Date:	10/18/2008	SeqNo:	2179598	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Ethylbenzene		19		0.50	20	0	97.4	79	140	20	1.58	40
Toluene		23		0.50	20	0	113	69	140	23	0.839	40
Vinyl chloride		26		0.53	20	0	128	62	140	25	2.50	40
Surr: 4-Bromofluorobenzene		41		0	40	0	103	70	114	43	0	0
Surr: Dibromofluoromethane		42		0	40	0	105	88	117	42	0	0
Surr: 1,2-Dichloroethane-d4		40		0	40	0	101	86	125	41	0	0
Surr: Toluene-d8		41		0	40	0	103	87	113	42	0	0

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

CLIENT: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID	MB	SampType:	MBLK	TestCode:	IC300_W	Units:	mg/L	Prep Date:		RunNo:	72641	
Client ID:	MB	Batch ID:	R72641b	TestNo:	E300.0			Analysis Date:	10/16/2008	SeqNo:	2175255	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Chloride 0.021 U 0.021

Sample ID	LCS	SampType:	LCS	TestCode:	IC300_W	Units:	mg/L	Prep Date:		RunNo:	72641	
Client ID:	LCS	Batch ID:	R72641b	TestNo:	E300.0			Analysis Date:	10/16/2008	SeqNo:	2175256	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Chloride 5.2 0.021 5.0 0 105 90 110

Sample ID	F08100698-001BMS	SampType:	MS	TestCode:	IC300_W	Units:	mg/L	Prep Date:		RunNo:	72641	
		Batch ID:	R72641b	TestNo:	E300.0			Analysis Date:	10/16/2008	SeqNo:	2175258	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Chloride 9.2 0.021 10 0 91.9 90 110

Sample ID	F08100720-001LMS	SampType:	MS	TestCode:	IC300_W	Units:	mg/L	Prep Date:		RunNo:	72641	
		Batch ID:	R72641b	TestNo:	E300.0			Analysis Date:	10/16/2008	SeqNo:	2175274	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Chloride 120 S 0.021 10 110 **71.0** 90 110

Sample ID	F08100698-001BMSD	SampType:	MSD	TestCode:	IC300_W	Units:	mg/L	Prep Date:		RunNo:	72641	
		Batch ID:	R72641b	TestNo:	E300.0			Analysis Date:	10/16/2008	SeqNo:	2175259	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Chloride 9.3 0.021 10 0 93.3 90 110 9.2 1.45 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: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: IC300_W

Sample ID	F08100720-001LMSD	SampType:	MSD	TestCode:	IC300_W	Units:	mg/L	Prep Date:		RunNo:	72641	
		Batch ID:	R72641b	TestNo:	E300.0			Analysis Date:	10/16/2008	SeqNo:	2175275	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Chloride		120	S	0.021	10	110	71.3	90	110	120	0.0281	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: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: ICP-6010_W

Sample ID	MB-56565	SampType:	MBLK	TestCode:	ICP-6010_W	Units:	µg/L	Prep Date:	10/20/2008	RunNo:	72726		
Client ID:	MB-56565	Batch ID:	56565	TestNo:	SW6010		SW3005A	Analysis Date:	10/20/2008	SeqNo:	2180971		
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Sodium 500 U 500

Sample ID	LCS-56565	SampType:	LCS	TestCode:	ICP-6010_W	Units:	µg/L	Prep Date:	10/20/2008	RunNo:	72726		
Client ID:	LCS-56565	Batch ID:	56565	TestNo:	SW6010		SW3005A	Analysis Date:	10/20/2008	SeqNo:	2180972		
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Sodium 14000 500 12000 0 109 80 120

Sample ID	F08100772-004CMS	SampType:	MS	TestCode:	ICP-6010_W	Units:	µg/L	Prep Date:	10/20/2008	RunNo:	72726		
		Batch ID:	56565	TestNo:	SW6010		SW3005A	Analysis Date:	10/20/2008	SeqNo:	2180999		
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Sodium 53000 500 12000 39000 114 75 125

Sample ID	F08100772-004CMSD	SampType:	MSD	TestCode:	ICP-6010_W	Units:	µg/L	Prep Date:	10/20/2008	RunNo:	72726		
		Batch ID:	56565	TestNo:	SW6010		SW3005A	Analysis Date:	10/20/2008	SeqNo:	2181000		
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Sodium 53000 500 12000 39000 114 75 125 53000 0.189 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: SCS Engineers
Work Order: F08100732
Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: N-NH3_W

Sample ID	QCS	SampType:	QCS	TestCode:	N-NH3_W	Units:	mg/L	Prep Date:		RunNo:	72806	
Client ID:	QCS	Batch ID:	R72714	TestNo:	E350.1			Analysis Date:	10/21/2008	SeqNo:	2179781	
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 95.7 90 110

Sample ID	MB-R72714H	SampType:	MBLK	TestCode:	N-NH3_W	Units:	mg/L	Prep Date:		RunNo:	72806	
Client ID:	MB-R72714H	Batch ID:	R72714H	TestNo:	E350.1			Analysis Date:	10/21/2008	SeqNo:	2179845	
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-R72714H	SampType:	LCS	TestCode:	N-NH3_W	Units:	mg/L	Prep Date:		RunNo:	72806	
Client ID:	LCS-R72714H	Batch ID:	R72714H	TestNo:	E350.1			Analysis Date:	10/21/2008	SeqNo:	2179782	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Nitrogen, Ammonia (As N) 0.95 0.020 1.0 0 95.4 90 110

Sample ID	F08100769-001DMS	SampType:	MS	TestCode:	N-NH3_W	Units:	mg/L	Prep Date:		RunNo:	72806	
		Batch ID:	R72714H	TestNo:	E350.1			Analysis Date:	10/21/2008	SeqNo:	2179803	
Analyte		Result	Qual	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit

Nitrogen, Ammonia (As N) 0.91 0.020 1.0 0 91.3 90 110

Sample ID	F08100769-001DDUP	SampType:	DUP	TestCode:	N-NH3_W	Units:	mg/L	Prep Date:		RunNo:	72806	
		Batch ID:	R72714H	TestNo:	E350.1			Analysis Date:	10/21/2008	SeqNo:	2179802	
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 0.020 U 0 20

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

CLIENT: SCS Engineers

Work Order: F08100732

Project: 09208040.02/Citrus County Leachate Sample

ANALYTICAL QC SUMMARY REPORT

TestCode: SOLIDS-TDS

Sample ID	MB-56587	SampType:	MBLK	TestCode:	SOLIDS-TDS	Units:	mg/L	Prep Date:	10/21/2008	RunNo:	72752		
Client ID:	MB-56587	Batch ID:	56587	TestNo:	SM2540 C		SM2540 C	Analysis Date:	10/21/2008	SeqNo:	2185537		
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-56587	SampType:	LCS	TestCode:	SOLIDS-TDS	Units:	mg/L	Prep Date:	10/21/2008	RunNo:	72752		
Client ID:	LCS-56587	Batch ID:	56587	TestNo:	SM2540 C		SM2540 C	Analysis Date:	10/21/2008	SeqNo:	2185538		
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	F08100698-001BDUP	SampType:	DUP	TestCode:	SOLIDS-TDS	Units:	mg/L	Prep Date:	10/21/2008	RunNo:	72752		
		Batch ID:	56587	TestNo:	SM2540 C		SM2540 C	Analysis Date:	10/21/2008	SeqNo:	2185540		
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

Sample ID	F08100732-001CDUP	SampType:	DUP	TestCode:	SOLIDS-TDS	Units:	mg/L	Prep Date:	10/21/2008	RunNo:	72752		
Client ID:	Equip Blank DUP	Batch ID:	56587	TestNo:	SM2540 C		SM2540 C	Analysis Date:	10/21/2008	SeqNo:	2185559		
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	I	Analyte detected below quantitation limits	S	Spike Recovery outside accepted recovery limits
Qualifier	U	Not Detected Above the MDL		

Code Key:



Elab, Inc.
8 East Tower Circle
Ormond Beach, FL 32174
(386) 672-5668 • FAX (386) 673-4001

CHAIN OF CUSTODY RECORD

No. E 126332 Page 1 of 1

(INSTRUCTIONS ON BACK OF THIS FORM)

FOR LAB USE ONLY

Condition of Contents: _____

FOR LAB USE ONLY

Submission No.

Temp. of Contents 2.0 °C (or Received on Ice, ROI)

Condition of Seals: _____

F08100732

1. Client: (Company or Individual)

SCS Engineers

Address:

4041 Park Oaks Blvd suite 100

Phone: (813)

621-0080

City Tampa

State FL

Zip Code 33610

Fax: (813)

813 623 6757

2. Report to: (if different from above)

Address:

Phone: ()

City

State

Zip Code

Fax: ()

3. Client Project Name:

Citrus City Leachate Sample

Water Sample Codes (for Item 13)

Container Codes (for Item 16)

4. Client Project No.:

09208040.02

5. P.O. No.:

6. Custody Seal No.:

7. Sampled By:

Scott Walby

8. Shipping Method:

plv

DW = Drinking Water
GW = Ground Water
SW = Surface Water
PW = Processed Water
WW = Waste Water

V = VOA vial
G = glass
P = plastic
M = micro bag/cup
O = other

14. No. of Containers

15. Preservatives	C	H	N	C	C	H		
16. Containers	P	P	P	P	V	V		
17. Analyses Requested	<u>TDS</u> <u>Nitrogen Ammonia</u> <u>ICP Metals</u> <u>Anions by chromatography</u> <u>8011</u> <u>8260</u>							

18. Report Type:

Routine
 Standard QC
 Datapackage

19. Turnaround Time

Standard
Rush: / /

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.		12.		13.						14. No. of Containers	15. Preservatives								16. Containers	17. Analyses Requested	20. REMARK	LAB USE ONLY LAB SAMPLE NO.												
			Date	Time	Comp.	Grab	Water (Codes)	Air	Soil	Sludge	Other	C		H	N	C	C	H																			
1	Equip Blank	DW	10/15/08	1150	X		DW																														
2	Leachate Effluent	PW	10/15/08	1210	X		PW																														
3																																					
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					

21. RELINQUISHED BY	DATE	TIME	22. RECEIVED BY	DATE	TIME	FOR LAB USE ONLY	
<u>BO [Signature]</u>	<u>10-13-08</u>	<u>1200</u>				Sampling Fee: _____ Hrs.	
<u>Scott Walby</u>	<u>10-15-08</u>	<u>1450</u>	<u>BO [Signature]</u>	<u>10/15/08</u>	<u>1450</u>	Equipment Rental Fee: _____	
<u>BO [Signature]</u>	<u>10-16-08</u>	<u>0900</u>	<u>CO [Signature]</u>	<u>10/16/08</u>	<u>11:05</u>	Profile No.:	Quote No.:

GROUNDWATER SAMPLING LOG

SITE NAME: <u>Citrus Cty LA</u>	SITE LOCATION: <u>230 West Camp to Lake Hwy</u>
WELL NO:	SAMPLE ID: <u>Leachate effluent wncs Test ID #175</u>
DATE: <u>10-15-08</u>	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet - feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:							
				PURGING ENDED AT:							
TOTAL VOLUME PURGED (gallons):											
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>12¹⁰</u>					<u>7.87</u>	<u>26.55</u>	<u>3.929</u>	<u>2.96</u>	<u>1.07</u>	<u>yellowish</u>	<u>-</u>
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: <u>Ses Engineers</u>				SAMPLER(S) SIGNATURES: <u>[Signature]</u>				SAMPLING INITIATED AT: <u>12¹⁰</u>		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute):				TUBING MATERIAL CODE:			
FIELD DECONTAMINATION: Y N				FIELD-FILTERED: Y N FILTER SIZE: _____ µm				DUPLICATE: Y <u>(N)</u>			
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					
<u>See</u>				<u>Attached form</u>							
REMARKS: <u>Preserved samples pH 2</u>											
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)

ELAB, Inc.

Corporate Headquarters
 8 East Tower Circle
 Ormond Beach, FL 32175-0468
 TEL: (386) 672-5668
 FAX: (386) 673-4001

Tampa Laboratory
 1211 Tech Blvd. Suite 106
 Tampa, FL 33619
 TEL: (813) 627-0003
 FAX: (813) 627-0582

BOTTLE ORDER**19538**

09-Oct-08

SHIPPED TO:

Company: SCS Engineers
 Contact: Mr. John Banks
 Address: 4041 Park Oaks Blvd.
 Suite100
 Tampa, FL 33610
 Phone: (813) 621-0080
 Quote ID:
 Project:

Submitted By:

Ship Date:
 VIA: courier-Bo
 Due Date: 10/13/2008

Bottle Code	Bottle Type	TEST(s)	QTY
1LPU	1-liter plastic, unpreserved	Solids, Total Dissolved	2
250PH2SO4	250 mL plastic, preserved 1:1 H2SO4 to pH<2	Nitrogen, Ammonia	2
250PHNO3	250 mL plastic, preserved 1:1 HNO3 to pH<2	ICP Metals	2
250PU	250 mL plastic, unpreserved	Anions by Ion Chromatography	2
40GU	40 mL vials (2), unpreserved	8011: EDB and DBCP	2
40HCL	40 mL VOC vials (3), preserved- 1:1 HCl to pH <2	8260: Volatile Organic Compounds	2

Cooler ID	Description
-----------	-------------

Comments: Citrus County-Leachate Effluent Sample, send one trip blank

SCS Engineers Citrus County Leachate Effluent

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

SITE NAME: <i>Citrus Cty LA</i>	SITE LOCATION: <i>230 W Gulf to Lake Hwy</i>	
WELL NO: _____	SAMPLE ID: <i>Equip Blank</i>	DATE: <i>10-15-08</i>

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
$= (\text{feet} - \text{feet}) \times \text{gallons/foot} = \text{gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
$= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

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: <i>S/S Engineers</i>				SAMPLER(S) SIGNATURES: <i>[Signature]</i>				SAMPLING INITIATED AT: <i>1150</i>		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet): _____				SAMPLE PUMP FLOW RATE (mL per minute): _____				TUBING MATERIAL CODE: _____			
FIELD DECONTAMINATION: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>				FIELD-FILTERED: Y <input type="checkbox"/> N <input checked="" type="checkbox"/> FILTER SIZE: _____ µm				DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
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					
<i>SEE Attached Form</i>											
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 = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RPPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all 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)

ELAB, Inc.

Corporate Headquarters
 8 East Tower Circle
 Ormond Beach, FL 32175-0468
 TEL: (386) 672-5668
 FAX: (386) 673-4001

Tampa Laboratory
 1211 Tech Blvd. Suite 106
 Tampa, FL 33619
 TEL: (813) 627-0003
 FAX: (813) 627-0582

BOTTLE ORDER**19538**

09-Oct-08

SHIPPED TO:

Company: SCS Engineers
 Contact: Mr. John Banks
 Address: 4041 Park Oaks Blvd.
 Suite100
 Tampa, FL 33610
 Phone: (813) 621-0080
 Quote ID:
 Project:

Submitted By:

Ship Date:
 VIA: courier-Bo
 Due Date: 10/13/2008

Bottle Code	Bottle Type	TEST(s)	QTY
1LPU	1-liter plastic, unpreserved	Solids, Total Dissolved	2
250PH2SO4	250 mL plastic, preserved 1:1 H2SO4 to pH<2	Nitrogen, Ammonia	2
250PHNO3	250 mL plastic, preserved 1:1 HNO3 to pH<2	ICP Metals	2
250PU	250 mL plastic, unpreserved	Anions by Ion Chromatography	2
40GU	40 mL vials (2), unpreserved	8011: EDB and DBCP	2
40HCL	40 mL VOC vials (3), preserved- 1:1 HCl to pH <2	8260: Volatile Organic Compounds	2

Cooler ID	Description

Comments: Citrus County-Leachate Effluent Sample, send one trip blank

SCS Engineers Citrus County Leachate Effluent

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) YSI 556 mps

INSTRUMENT # 07F101777 *Pine Rentals*

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL Cl DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A PH #7 D) ORP 240mV
 Standard B PH #4 E) Conductivity
 Standard C PH #10 F) DO

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C) <i>or</i>	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	Exp of Standard
08/10/15	11:00	E	1413 m/s	1.413		Yes	init	SW	4-2009
	11:05	A	7.0	7.03 <i>calibrated to 7.0</i>		Yes	init	SW	3-2010
	11:10	B	4.0	4.13 <i>calibrated to 4</i>		Yes	init	SW	4-2010
	11:15	C	10	9.99		Yes	init	SW	4-2010
	11:20	D	ORP 240mV	241.3 <i>calibrated to 240</i>		Yes	init	SW	9-2012
	11:25	F	100%	110.3% <i>Cal to 100%</i>		Yes	init	SW	N/A
	12:20	E	1413	1413		Yes	cont	SW	
	12:25	A	7.0	6.9		Yes	cont	SW	
	12:30	B	4.0	4.0		Yes	cont	SW	
	12:35	C	10	9.99		Yes	cont	SW	
	12:40	D	ORP 240mV	240		Yes	cont	SW	
	12:45	F	100%	100%		Yes	cont	SW	

DEP-SOP-001/01
FT 1000 General Field Testing and Measurement

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) Camette 2026E **INSTRUMENT #** 12852 Rentals

PARAMETER: [check only one]

- TEMPERATURE CONDUCTIVITY SALINITY pH ORP
 TURBIDITY RESIDUAL CI DO OTHER _____

STANDARDS: [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 1 ntu

Standard B 10 ntu

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
05/10/08	11:10	A	1 ntu	1.26		no Calibrated to 1 ntu	init	S
"	11:15	B	10 ntu	10.03		yes	init	S
	12:25	A	1 ntu	1.1		yes	Cont	S
	12:30	B	10 ntu	9.98		yes	Cont	L

Standard
Exp
10/09

CHAIN OF CUSTODY RECORD

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

FOR LAB USE ONLY
 Submission No. _____

Condition of Contents: _____
 Condition of Seals: _____

Temp. of Contents: *C (or Received on Ice, ROI)
 Address: _____
 Phone: () _____

City: _____ State: _____ Zip Code: _____
 Address: _____
 Phone: () _____

City: _____ State: _____ Zip Code: _____
 Address: _____
 Phone: () _____

1. Client: (Company or Individual)
SOS Engineers

2. Report to: (if different from above)

3. Client Project Name: _____
 4. Client Project No.: _____
 5. P.O. No.: _____
 6. Custody Seal No.: _____
 7. Sampled By: _____
 8. Shipping Method: _____

9. Sample ID or No. _____
 10. Sample Description _____
 11. Date _____

12. Time _____
 13. Water Codes (for Item 13)
 DW = Drinking Water
 GW = Ground Water
 SW = Surface Water
 PW = Processed Water
 WW = Waste Water

14. No. of Containers _____
 15. Container Codes (for Item 16)
 V = VOA vial
 G = glass
 P = plastic
 M = micro bag/cup
 O = other

16. Container Codes _____
 17. Container Codes _____

18. Report Type:
 Routine _____
 Standard QC _____
 Datapackage _____

19. Turnaround Time:
 Standard _____
 Rush: / / _____

20. Remark _____
 21. Relinquished By _____ Date _____ Time _____
 22. Received By _____ Date _____ Time _____

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

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

ATTACHMENT 2

MONTHLY LEACHATE QUALITY
ANALYTICAL RESULTS FOR
OCTOBER, NOVEMBER, AND DECEMBER 2008

S.A.C. ENVIRONMENTAL LABORATORY INC
FLDOH CERTIFICATION #84492
ANALYTICAL REPORT

SOLID WASTE MANAGEMENT
 PO BOX 340
 LECANTO FL 34460

Invoice Number 9975

Client	CITRUS COUNTY UTILITIES	Sample Number	E081862	
Project	LANDFILL LEACHATE PLANT	Date/Time Sampled	10/7/08	0845 HRS
Sample Description	WWTP/EFF	Date/Time Received	10/7/08	1111 HRS

Method	Analytes	Units	Results	MDL mg/L	Analyst	Analysis Date/Time
SM5210-B	CBOD	mg/L	2.06	1.4 mg/L	SJL	10/8/08 0830 HRS
SM2540-D	TSS	mg/L	<1	1.0 mg/L	SJL	10/8/08 0940 HRS
SM4500-NO3-E	NITRATE	mg/L	3.76	0.10 mg/L	CK	10/8/08 0845 HRS

Sally Ann Casullo
 Laboratory Manager

These results relate only to this sample.
 For all results qualified with an I, the PQL is defined to be 4 times the MDL

S.A.C. ENVIRONMENTAL LABORATORY INC
FLDOH CERTIFICATION #84492
ANALYTICAL REPORT

SOLID WASTE MANAGEMENT
PO BOX 340
LECANTO FL 34460

Invoice Number 10034

Client CITRUS COUNTY UTILITIES **Sample Number** E082259
Project LANDFILL LEACHATE PLANT **Date/Time Sampled** 11/5/08 1140 HRS
Sample Description WWTP/EFF **Date/Time Received** 11/5/08 1144 HRS

Method	Analytes	Units	Results	MDL mg/L	Analyst	Analysis Date/Time
SM5210-B	CBOD	mg/L	2.12	1.4 mg/L	SJL	11/6/08 1150 HRS
SM2540-D	TSS	mg/L	3.50	1.0 mg/L	SJL	11/7/08 0935 HRS
SM4500-NO3-E	NITRATE	mg/L	6.70	0.10 mg/L	CK	11/6/08 0900 HRS

Sally Ann Cassillo

Laboratory Manager

These results relate only to this sample.

For all results qualified with an I, the PQL is defined to be 4 times the MDL

S.A.C. ENVIRONMENTAL LABORATORY INC
FLDOH CERTIFICATION #84492
ANALYTICAL REPORT

SOLID WASTE MANAGEMENT
 PO BOX 340
 LECANTO FL 34460

Invoice Number 10094

Client	CITRUS COUNTY UTILITIES	Sample Number	E082510	
Project	LANDFILL LEACHATE PLANT	Date/Time Sampled	12/3/08	0830 HRS
Sample Description	WWTP/EFF	Date/Time Received	12/3/08	1020 HRS

Method	Analytes	Units	Results	MDL mg/L	Analyst	Analysis Date/Time
SM5210-B	CBOD	mg/L	2.25	1.4 mg/L	SJL	12/4/08 1530 HRS
SM2540-D	TSS	mg/L	3.00	1.0 mg/L	SJL	12/5/08 1020 HRS
SM4500-NO3-E	NITRATE	mg/L	6.11	0.10 mg/L	CK	12/3/08 1100 HRS

Sally Ann Casullo

Laboratory Manager

These results relate only to this sample.

For all results qualified with an I, the PQL is defined to be 4 times the MDL

ATTACHMENT 3

COMPACT DISK CONTAINING
REPORT IN PDF FORMAT AND
VALIDATOR FILE