



Invoice Date: 10/21/2009

Invoice

Remit to:

**MANATEE COUNTY UTILITIES
CENTRAL LABORATORY
4751 66th STREET WEST
BRADENTON, FL 34210
Phone: (941) 792-8811 ext. 5285
Fax: (941) 795-3477**

To: Mr. Mike Gore
MCUOD Solid Waste Division
4410 66th Street West
Bradenton, FL 34210

Project Name: Lena Road Landfill
Sample Locations: SW1 & 2
Samples received on: 9/9/2009 & 9/14/2009

Detailed Invoice information

Analysis Name	Quantity	Unit Price	Total Price
Fecal Coliforms	2	\$6.30	\$12.60
Carbonaceous BOD (5 day)	4	\$10.50	\$42.00
Chemical Oxygen Demand	2	\$10.50	\$21.00
Total Organic Carbon	2	\$10.50	\$21.00
Total Dissolved Solids	2	\$6.30	\$12.60
Total Suspended Solids	4	\$6.30	\$25.20
Total Nitrogen	2	\$8.95	\$17.90
Total Phosphate as P	2	\$8.40	\$16.80
Unionized Ammonia	2	\$4.90	\$9.80
Ammonia	2	\$4.20	\$8.40
Total Kjeldahl Nitrogen	2	\$10.50	\$21.00
Nitrite as N by Ion Chromatography	2	\$4.20	\$8.40
Nitrate as N by Ion Chromatography	2	\$4.20	\$8.40
Selenium by GFAAS	2	\$6.30	\$12.60
Thallium by GFAAS	2	\$6.30	\$12.60
Invoice Total			\$250.30





REPORT OF ANALYSIS
MANATEE COUNTY UTILITIES DEPARTMENT
CENTRAL LABORATORY
4751 66th STREET WEST
BRADENTON, FL 34210

Phone: (941) 792-8811 ext. 5235

Fax: (941) 795-3477

FDOHLAB ID: E54560

USEPA LAB CODE: FL00031

Laboratory Contact: Jeff Goodwin

PREPARED FOR: Mr. ~~Gus Difenzo~~
MCUOD Solid Waste Division
4410 66th Street West
Bradenton, FL 34210

SAMPLE RECEIPT DATE: 09/09/2009

REPORT DATE: 10/16/2009

PROJECT NAME: Lena Road Semi-Annual
Surface Water Monitoring
Report

Data Release Authorization:

The Methods of analysis in this report are in accordance with MCUD Central Laboratory's Quality Assurance Manual and meet all NELAC standards except where noted. Results pertain only to items tested and to the samples specified. This report may not be reproduced, except in full, without the written approval of this laboratory.

Jeffrey A.
Goodwin

2009.10.22
12:11:28 -04'00'



Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Sample ID	AE25253	Collection Date / Time			09/09/2009	11:25			
Sample Point	Lena Road Surface Water 1								
ANIONS									
Nitrate as N by Ion Chromatography	EPA 300.0	0.167	mg/L		09/10/2009	12:23	0.006	0.025	AMC
Nitrite as N by Ion Chromatography	EPA 300.0	0.030	mg/L		09/10/2009	12:23	0.006	0.025	AMC
CONTRACT									
Mercury Contract Lab 1631	EPA 1631	1.0	ng/L		09/11/2009	12:40	0.500	2.00	MKB
DEMANDS									
Carbonaceous BOD (5 day)	SM 5210 B	NO DATA	mg/L	' '	09/11/2009	10:09	2.00	2.00	JAG
Chemical Oxygen Demand	EPA 410.4	92.7	mg/L		09/29/2009	13:40	10.0	40.0	EMM
Total Organic Carbon	SM 5310C	33.2	mg/L		09/14/2009	19:07	0.100	0.500	AMC
FIELD									
Field pH	FIELD	6.6	Std. units		09/09/2009	11:25	0.010		LW
Field Temperature	FIELD	26.6	Degrees C		09/09/2009	11:25			LW
METALS									
Metals by 200.7									
Antimony	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.006	0.018	KMH
Arsenic	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.007	0.021	KMH
Barium	EPA 200.7	0.012	mg/L		09/21/2009	14:14	0.0005	0.002	KMH
Beryllium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.0002	0.0006	KMH
Cadmium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.0005	0.002	KMH
Calcium	EPA 200.7	43.0	mg/L		09/21/2009	14:14	0.010	0.030	KMH
Chromium	EPA 200.7	0.004	mg/L		09/21/2009	14:14	0.001	0.003	KMH
Cobalt	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.001	0.003	KMH
Copper	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.005	0.015	KMH
Iron	EPA 200.7	5.04	mg/L		09/21/2009	14:14	0.010	0.030	KMH
Lead	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.005	0.020	KMH
Magnesium	EPA 200.7	12.1	mg/L		09/21/2009	14:14	0.005	0.015	KMH
Nickel	EPA 200.7	0.003	mg/L	I	09/21/2009	14:14	0.001	0.003	KMH
Selenium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.010	0.030	KMH
Selenium by GFAAS	SM 3113B	0.0007	mg/L	I	09/25/2009	19:37	0.0002	0.001	KMH
Silver	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.002	0.006	KMH
Sodium	EPA 200.7	40.1	mg/L		09/21/2009	14:14	0.500	1.50	KMH
Thallium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.015	0.015	KMH
Thallium by GFAAS	EPA 279.2	<MDL	mg/L	U	09/16/2009	00:51	0.0004	0.002	KMH
Total Hardness	SM 2340 B	157	mg/L		09/30/2009	15:16			KMH
Vanadium	EPA 200.7	0.0034	mg/L		09/21/2009	14:14	0.0005	0.002	KMH
Zinc	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:14	0.010	0.030	KMH
MICROBIOLOGY									
Fecal Coliforms	SM 9222D	890	cfu/100 ml		09/12/2009	07:19	1		AMC/IR
NUTRIENTS									
Total Kjeldahl Nitrogen	EPA 351.2	1.65	mg/L		09/15/2009	14:50	0.050	0.200	EMM
Total Phosphate as P	EPA 365.1	0.94	mg/L		09/16/2009	15:58	0.003	0.010	REED
Ammonia	EPA 350.1	0.284	mg/L		09/14/2009	13:31	0.009	0.050	AMC
Total Nitrogen	EPA 351.2/300.0	1.85	mg/L		09/17/2009	15:31			JAG
Unionized Ammonia	DEP SOP 10/3/83	0.00087	mg/L		09/29/2009	14:45			
SOLIDS									
Total Dissolved Solids	SM 2540 C	367	mg/L		09/12/2009	10:24	10.0	10.0	AMC/IR
Total Suspended Solids	SM 2540 D	NO DATA	mg/L	' '	09/11/2009	10:09	1.00	5.00	JAG

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Sample ID	AE25254	Collection Date / Time			09/09/2009	10:50			
Sample Point	Lena Road Surface Water 2								
ANIONS									
Nitrate as N by Ion Chromatography	EPA 300.0	0.109	mg/L		09/10/2009	12:39	0.006	0.025	AMC
Nitrite as N by Ion Chromatography	EPA 300.0	<MDL	mg/L	U	09/10/2009	12:39	0.006	0.025	AMC
CONTRACT									
Mercury Contract Lab 1631	EPA 1631	0.82	ng/L		09/11/2009	12:40	0.500	2.00	MKB
DEMANDS									
Carbonaceous BOD (5 day)	SM 5210 B	NO DATA	mg/L	' '	09/11/2009	10:10	2.00	2.00	JAG
Chemical Oxygen Demand	EPA 410.4	151	mg/L		09/29/2009	13:40	10.0	40.0	EMM
Total Organic Carbon	SM 5310C	47.6	mg/L		10/05/2009	16:59	0.100	0.500	IR
FIELD									
Field pH	FIELD	6.1	Std. units		09/09/2009	10:50	0.010		LW
Field Temperature	FIELD	27.6	Degrees C		09/09/2009	10:50			LW
METALS									
Metals by 200.7									
Antimony	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.006	0.018	KMH
Arsenic	EPA 200.7	0.182	mg/L		09/21/2009	14:42	0.007	0.021	KMH
Barium	EPA 200.7	0.060	mg/L		09/21/2009	14:42	0.0005	0.002	KMH
Beryllium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.0002	0.0006	KMH
Cadmium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.0005	0.002	KMH
Calcium	EPA 200.7	74.1	mg/L		09/21/2009	14:42	0.010	0.030	KMH
Chromium	EPA 200.7	0.004	mg/L		09/21/2009	14:42	0.001	0.003	KMH
Cobalt	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.001	0.003	KMH
Copper	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.005	0.015	KMH
Iron	EPA 200.7	48.7	mg/L		09/21/2009	14:42	0.010	0.030	KMH
Lead	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.005	0.020	KMH
Magnesium	EPA 200.7	19.4	mg/L		09/21/2009	14:42	0.005	0.015	KMH
Nickel	EPA 200.7	0.003	mg/L	I	09/21/2009	14:42	0.001	0.003	KMH
Selenium by GFAAS	SM 3113B	0.0005	mg/L	I	09/25/2009	20:24	0.0002	0.001	KMH
Silver	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.002	0.006	KMH
Sodium	EPA 200.7	88.7	mg/L		09/21/2009	14:42	0.500	1.50	KMH
Thallium	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.015	0.015	KMH
Thallium by GFAAS	EPA 279.2	<MDL	mg/L	U	09/16/2009	01:01	0.0004	0.002	KMH
Total Hardness	SM 2340 B	265	mg/L		09/30/2009	15:16			KMH
Vanadium	EPA 200.7	0.0062	mg/L		09/21/2009	14:42	0.0005	0.002	KMH
Zinc	EPA 200.7	< MDL	mg/L	U	09/21/2009	14:42	0.010	0.030	KMH
MICROBIOLOGY									
Fecal Coliforms	SM 9222D	240	cfu/100 ml		09/12/2009	07:19	1		AMC/IR
NUTRIENTS									
Total Kjeldahl Nitrogen	EPA 351.2	2.36	mg/L		09/29/2009	13:48	0.050	0.200	AMC
Total Phosphate as P	EPA 365.1	0.26	mg/L		09/16/2009	15:59	0.003	0.010	REED
Ammonia	EPA 350.1	0.058	mg/L		09/14/2009	13:32	0.009	0.050	AMC
Total Nitrogen	EPA 351.2/300.0	2.47	mg/L		09/30/2009	15:16			KMH
Unionized Ammonia	DEP SOP 10/3/83	0.00006	mg/L		09/29/2009	14:47			
SOLIDS									
Total Dissolved Solids	SM 2540 C	647	mg/L		09/12/2009	10:24	10.0	10.0	AMC/IR
Total Suspended Solids	SM 2540 D	NO DATA	mg/L	' '	09/11/2009	10:10	1.00	5.00	JAG

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Sample ID	AE28305	Collection Date / Time		09/14/2009	09:39				
Sample Point	Lena Road Surface Water 2								
DEMANDS									
Carbonaceous BOD (5 day)	SM 5210 B	<MDL	mg/L	U	09/19/2009	10:55	2.00	2.00	IR/KMH
FIELD									
Field conductivity	FIELD	288	umhos/cm		09/14/2009	09:39	1		DWELLS
Field Dissolved Oxygen	FIELD	12.8	mg/L		09/14/2009	09:39	2.00		DWELLS
Field pH	FIELD	6.69	Std. units		09/14/2009	09:39	0.010		DWELLS
Field Temperature	FIELD	26.3	Degrees C		09/14/2009	09:39			DWELLS
Field Turbidity	FIELD	14.77	NTU		09/14/2009	09:39	0.050		DWELLS
SOLIDS									
Total Suspended Solids	SM 2540 D	5.80	mg/L		09/15/2009	14:35	1.00	5.00	AMC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Sample ID	AE28306	Collection Date / Time		09/14/2009	09:59				
Sample Point	Lena Road Surface Water 1								
DEMANDS									
Carbonaceous BOD (5 day)	SM 5210 B	<MDL	mg/L	U	09/19/2009	10:55	2.00	2.00	IR/KMH
FIELD									
Field conductivity	FIELD	280	umhos/cm		09/16/2009	09:59	1		DWELLS
Field Dissolved Oxygen	FIELD	26.0	mg/L		09/16/2009	09:59	2.00		DWELLS
Field pH	FIELD	6.95	Std. units		09/16/2009	09:59	0.010		DWELLS
Field Temperature	FIELD	26.0	Degrees C		09/16/2009	09:59			DWELLS
Field Turbidity	FIELD	10.9	NTU		09/16/2009	09:59	0.050		DWELLS
SOLIDS									
Total Suspended Solids	SM 2540 D	7.00	mg/L		09/15/2009	14:35	1.00	5.00	AMC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
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Batch Name SICPWATER-16771

QA Sample ID AE25253

Samples AE25253 AE25254

Method Blank for Metals by 200.7

Antimony		< MDL	mg/L	U	09/21/2009 12:43			KMH
Arsenic		< MDL	mg/L	U	09/21/2009 12:43			KMH
Barium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Beryllium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Cadmium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Calcium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Chromium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Cobalt		< MDL	mg/L	U	09/21/2009 12:43			KMH
Copper		< MDL	mg/L	U	09/21/2009 12:43			KMH
Iron		< MDL	mg/L	U	09/21/2009 12:43			KMH
Lead		< MDL	mg/L	U	09/21/2009 12:43			KMH
Magnesium		0.010	mg/L	I	09/21/2009 12:43			KMH
Nickel		< MDL	mg/L	U	09/21/2009 12:43			KMH
Selenium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Silver		< MDL	mg/L	U	09/21/2009 12:43			KMH
Sodium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Thallium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Vanadium		< MDL	mg/L	U	09/21/2009 12:43			KMH
Zinc		< MDL	mg/L	U	09/21/2009 12:43			KMH

Int Calb Rec for Metals by 200.7

Antimony		96.0	%		09/21/2009 12:50			KMH
Arsenic		95.6	%		09/21/2009 12:50			KMH
Barium		96.8	%		09/21/2009 12:50			KMH
Beryllium		104	%		09/21/2009 12:50			KMH
Cadmium		95.2	%		09/21/2009 12:50			KMH
Calcium		101	%		09/21/2009 12:50			KMH
Chromium		96.4	%		09/21/2009 12:50			KMH
Cobalt		96.4	%		09/21/2009 12:50			KMH
Copper		101	%		09/21/2009 12:50			KMH
Iron		98.4	%		09/21/2009 12:50			KMH
Lead		100	%		09/21/2009 12:50			KMH
Magnesium		98.8	%		09/21/2009 12:50			KMH
Nickel		96.8	%		09/21/2009 12:50			KMH
Selenium		97.1	%		09/21/2009 12:50			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	SICPWATER-16771		QA Sample ID	AE25253					
Samples	AE25253 AE25254								
Int Calb Rec for Metals by 200.7									
Silver		101	%		09/21/2009	12:50			KMH
Sodium		99.0	%		09/21/2009	12:50			KMH
Thallium		96.5	%		09/21/2009	12:50			KMH
Vanadium		101	%		09/21/2009	12:50			KMH
Zinc		97.0	%		09/21/2009	12:50			KMH
LCS Recovery for Metals by 200.7									
Antimony		102	%		09/21/2009	13:24			KMH
Arsenic		101	%		09/21/2009	13:24			KMH
Barium		100	%		09/21/2009	13:24			KMH
Beryllium		104	%		09/21/2009	13:24			KMH
Cadmium		96.8	%		09/21/2009	13:24			KMH
Calcium		101	%		09/21/2009	13:24			KMH
Chromium		102	%		09/21/2009	13:24			KMH
Cobalt		98.0	%		09/21/2009	13:24			KMH
Copper		103	%		09/21/2009	13:24			KMH
Iron		103	%		09/21/2009	13:24			KMH
Lead		101	%		09/21/2009	13:24			KMH
Magnesium		98.6	%		09/21/2009	13:24			KMH
Nickel		100	%		09/21/2009	13:24			KMH
Selenium		103	%		09/21/2009	13:24			KMH
Silver		103	%		09/21/2009	13:24			KMH
Sodium		101	%		09/21/2009	13:24			KMH
Thallium		95.5	%		09/21/2009	13:24			KMH
Vanadium		104	%		09/21/2009	13:24			KMH
Zinc		98.9	%		09/21/2009	13:24			KMH
Sample Dup for Metals by 200.7									
Antimony		< MDL	mg/L	U	09/21/2009	14:21			KMH
Arsenic		< MDL	mg/L	U	09/21/2009	14:21			KMH
Barium		0.013	mg/L		09/21/2009	14:21			KMH
Beryllium		< MDL	mg/L	U	09/21/2009	14:21			KMH
Cadmium		< MDL	mg/L	U	09/21/2009	14:21			KMH
Calcium		43.5	mg/L	U	09/21/2009	14:21			KMH
Chromium		0.004	mg/L		09/21/2009	14:21			KMH
Cobalt		< MDL	mg/L	U	09/21/2009	14:21			KMH
Copper		< MDL	mg/L	U	09/21/2009	14:21			KMH
Iron		5.10	mg/L		09/21/2009	14:21			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	SICPWATER-16771		QA Sample ID	AE25253					
Samples	AE25253 AE25254								
Sample Dup for Metals by 200.7									
Lead		< MDL	mg/L	U	09/21/2009	14:21			KMH
Magnesium		12.2	mg/L		09/21/2009	14:21			KMH
Nickel		0.003	mg/L	I	09/21/2009	14:21			KMH
Selenium		< MDL	mg/L	U	09/21/2009	14:21			KMH
Silver		< MDL	mg/L	U	09/21/2009	14:21			KMH
Sodium		40.8	mg/L		09/21/2009	14:21			KMH
Thallium		< MDL	mg/L	U	09/21/2009	14:21			KMH
Vanadium		0.0032	mg/L		09/21/2009	14:21			KMH
Zinc		< MDL	mg/L	U	09/21/2009	14:21			KMH
Samp Dup Precision for Metals by 200.7									
Antimony		Passed	%		09/21/2009	14:14			KMH
Arsenic		Passed	%		09/21/2009	14:14			KMH
Barium		8.33	%		09/21/2009	14:14			KMH
Beryllium		Passed	%		09/21/2009	14:14			KMH
Cadmium		Passed	%		09/21/2009	14:14			KMH
Calcium		1.16	%		09/21/2009	14:14			KMH
Chromium		0.00	%		09/21/2009	14:14			KMH
Cobalt		Passed	%		09/21/2009	14:14			KMH
Copper		Passed	%		09/21/2009	14:14			KMH
Iron		1.18	%		09/21/2009	14:14			KMH
Lead		Passed	%		09/21/2009	14:14			KMH
Magnesium		0.820	%		09/21/2009	14:14			KMH
Nickel		0.00	%		09/21/2009	14:14			KMH
Selenium		Passed	%		09/21/2009	14:14			KMH
Silver		Passed	%		09/21/2009	14:14			KMH
Sodium		1.73	%		09/21/2009	14:14			KMH
Thallium		Passed	%		09/21/2009	14:14			KMH
Vanadium		6.06	%		09/21/2009	14:14			KMH
Zinc		Passed	%		09/21/2009	14:14			KMH
MS Result for Metals by 200.7									
Antimony		1.05	mg/L		09/21/2009	14:28			KMH
Arsenic		1.04	mg/L		09/21/2009	14:28			KMH
Barium		0.265	mg/L		09/21/2009	14:28			KMH
Beryllium		0.052	mg/L		09/21/2009	14:28			KMH
Cadmium		0.241	mg/L		09/21/2009	14:28			KMH
Calcium		94.0	mg/L		09/21/2009	14:28			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-16771	QA Sample ID	AE25253					
Samples	AE25253 AE25254							
MS Result for Metals by 200.7								
Chromium		0.260	mg/L		09/21/2009 14:28			KMH
Cobalt		0.248	mg/L		09/21/2009 14:28			KMH
Copper		1.05	mg/L		09/21/2009 14:28			KMH
Iron		11.5	mg/L		09/21/2009 14:28			KMH
Lead		1.01	mg/L		09/21/2009 14:28			KMH
Magnesium		62.5	mg/L		09/21/2009 14:28			KMH
Nickel		0.256	mg/L		09/21/2009 14:28			KMH
Selenium		1.04	mg/L		09/21/2009 14:28			KMH
Silver		0.260	mg/L		09/21/2009 14:28			KMH
Sodium		144	mg/L		09/21/2009 14:28			KMH
Thallium		0.941	mg/L		09/21/2009 14:28			KMH
Vanadium		0.262	mg/L		09/21/2009 14:28			KMH
Zinc		0.999	mg/L		09/21/2009 14:28			KMH
MS Recovery for Metals by 200.7								
Antimony		105	%		09/21/2009 14:14			KMH
Arsenic		104	%		09/21/2009 14:14			KMH
Barium		101	%		09/21/2009 14:14			KMH
Beryllium		104	%		09/21/2009 14:14			KMH
Cadmium		96.4	%		09/21/2009 14:14			KMH
Calcium		102	%		09/21/2009 14:14			KMH
Chromium		102	%		09/21/2009 14:14			KMH
Cobalt		99.2	%		09/21/2009 14:14			KMH
Copper		105	%		09/21/2009 14:14			KMH
Iron		103	%		09/21/2009 14:14			KMH
Lead		101	%		09/21/2009 14:14			KMH
Magnesium		101	%		09/21/2009 14:14			KMH
Nickel		101	%		09/21/2009 14:14			KMH
Selenium		104	%		09/21/2009 14:14			KMH
Silver		104	%		09/21/2009 14:14			KMH
Sodium		104	%		09/21/2009 14:14			KMH
Thallium		94.1	%		09/21/2009 14:14			KMH
Vanadium		103	%		09/21/2009 14:14			KMH
Zinc		99.9	%		09/21/2009 14:14			KMH
MS/MSD Precision for Metals by 200.7								
Antimony		0.00	%		09/21/2009 14:28			KMH
Arsenic		0.00	%		09/21/2009 14:28			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-16771	QA Sample ID	AE25253					
Samples	AE25253 AE25254							
MS/MSD Precision for Metals by 200.7								
Barium		0.376	%		09/21/2009 14:28			KMH
Beryllium		1.92	%		09/21/2009 14:28			KMH
Cadmium		0.00	%		09/21/2009 14:28			KMH
Calcium		0.533	%		09/21/2009 14:28			KMH
Chromium		0.00	%		09/21/2009 14:28			KMH
Cobalt		0.403	%		09/21/2009 14:28			KMH
Copper		0.00	%		09/21/2009 14:28			KMH
Iron		0.00	%		09/21/2009 14:28			KMH
Lead		0.00	%		09/21/2009 14:28			KMH
Magnesium		0.481	%		09/21/2009 14:28			KMH
Nickel		0.391	%		09/21/2009 14:28			KMH
Selenium		0.962	%		09/21/2009 14:28			KMH
Silver		0.385	%		09/21/2009 14:28			KMH
Sodium		0.00	%		09/21/2009 14:28			KMH
Thallium		0.426	%		09/21/2009 14:28			KMH
Vanadium		0.00	%		09/21/2009 14:28			KMH
Zinc		0.100	%		09/21/2009 14:28			KMH
Cont Calb Rec for Metals by 200.7								
Antimony		100	%		09/21/2009 15:52			KMH
Arsenic		100	%		09/21/2009 15:52			KMH
Barium		103	%		09/21/2009 15:52			KMH
Beryllium		101	%		09/21/2009 15:52			KMH
Cadmium		100	%		09/21/2009 15:52			KMH
Calcium		99.5	%		09/21/2009 15:52			KMH
Chromium		100	%		09/21/2009 15:52			KMH
Cobalt		98.6	%		09/21/2009 15:52			KMH
Copper		102	%		09/21/2009 15:52			KMH
Iron		99.2	%		09/21/2009 15:52			KMH
Lead		101	%		09/21/2009 15:52			KMH
Magnesium		100	%		09/21/2009 15:52			KMH
Nickel		101	%		09/21/2009 15:52			KMH
Selenium		102	%		09/21/2009 15:52			KMH
Silver		91.8	%		09/21/2009 15:52			KMH
Sodium		100	%		09/21/2009 15:52			KMH
Thallium		102	%		09/21/2009 15:52			KMH
Vanadium		99.6	%		09/21/2009 15:52			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	SICPWATER-16771	QA Sample ID	AE25253						
Samples	AE25253 AE25254								
Cont Calb Rec for Metals by 200.7									
Zinc		99.5	%		09/21/2009	15:52			KMH
Continuing Cal. Blank for Metals by 200.									
Antimony		<MDL	mg/L	U	09/21/2009	16:27			KMH
Arsenic		<MDL	mg/L	U	09/21/2009	16:27			KMH
Barium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Beryllium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Cadmium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Calcium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Chromium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Cobalt		<MDL	mg/L	U	09/21/2009	16:27			KMH
Copper		<MDL	mg/L	U	09/21/2009	16:27			KMH
Iron		<MDL	mg/L	U	09/21/2009	16:27			KMH
Lead		<MDL	mg/L	U	09/21/2009	16:27			KMH
Magnesium		0.032	mg/L		09/21/2009	16:27			KMH
Nickel		<MDL	mg/L	U	09/21/2009	16:27			KMH
Selenium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Silver		<MDL	mg/L	U	09/21/2009	16:27			KMH
Sodium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Thallium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Vanadium		<MDL	mg/L	U	09/21/2009	16:27			KMH
Zinc		<MDL	mg/L	U	09/21/2009	16:27			KMH
Continuous Calibration for Metals by 200									
Antimony		2.01	mg/L		09/21/2009	15:52			KMH
Arsenic		2.01	mg/L		09/21/2009	15:52			KMH
Barium		0.517	mg/L		09/21/2009	15:52			KMH
Beryllium		0.101	mg/L		09/21/2009	15:52			KMH
Cadmium		0.500	mg/L		09/21/2009	15:52			KMH
Calcium		199	mg/L		09/21/2009	15:52			KMH
Chromium		0.500	mg/L		09/21/2009	15:52			KMH
Cobalt		0.493	mg/L		09/21/2009	15:52			KMH
Copper		2.03	mg/L		09/21/2009	15:52			KMH
Iron		24.9	mg/L		09/21/2009	15:52			KMH
Lead		2.02	mg/L		09/21/2009	15:52			KMH
Magnesium		200	mg/L		09/21/2009	15:52			KMH
Nickel		0.506	mg/L		09/21/2009	15:52			KMH
Selenium		2.03	mg/L		09/21/2009	15:52			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	SICPWATER-16771	QA Sample ID	AE25253						
Samples	AE25253 AE25254								
Continuous Calibration for Metals by 200									
Silver		0.459	mg/L		09/21/2009	15:52			KMH
Sodium		401	mg/L		09/21/2009	15:52			KMH
Thallium		2.03	mg/L		09/21/2009	15:52			KMH
Vanadium		0.498	mg/L		09/21/2009	15:52			KMH
Zinc		1.99	mg/L		09/21/2009	15:52			KMH
Initial Calibration for Metals by 200.7									
Antimony		0.960	mg/L		09/21/2009	12:50			KMH
Arsenic		0.956	mg/L		09/21/2009	12:50			KMH
Barium		0.242	mg/L		09/21/2009	12:50			KMH
Beryllium		0.052	mg/L		09/21/2009	12:50			KMH
Cadmium		0.238	mg/L		09/21/2009	12:50			KMH
Calcium		50.4	mg/L		09/21/2009	12:50			KMH
Chromium		0.241	mg/L		09/21/2009	12:50			KMH
Cobalt		0.241	mg/L		09/21/2009	12:50			KMH
Copper		1.01	mg/L		09/21/2009	12:50			KMH
Iron		12.3	mg/L		09/21/2009	12:50			KMH
Lead		1.00	mg/L		09/21/2009	12:50			KMH
Magnesium		49.4	mg/L		09/21/2009	12:50			KMH
Nickel		0.242	mg/L		09/21/2009	12:50			KMH
Selenium		0.971	mg/L		09/21/2009	12:50			KMH
Silver		0.253	mg/L		09/21/2009	12:50			KMH
Sodium		99.0	mg/L		09/21/2009	12:50			KMH
Thallium		0.965	mg/L		09/21/2009	12:50			KMH
Vanadium		0.252	mg/L		09/21/2009	12:50			KMH
Zinc		0.970	mg/L		09/21/2009	12:50			KMH
Metals by 200.7									
Antimony		< MDL	mg/L	U	09/21/2009	14:14			KMH
Arsenic		< MDL	mg/L	U	09/21/2009	14:14			KMH
Barium		0.012	mg/L		09/21/2009	14:14			KMH
Beryllium		< MDL	mg/L	U	09/21/2009	14:14			KMH
Cadmium		< MDL	mg/L	U	09/21/2009	14:14			KMH
Calcium		43.0	mg/L		09/21/2009	14:14			KMH
Chromium		0.004	mg/L		09/21/2009	14:14			KMH
Cobalt		< MDL	mg/L	U	09/21/2009	14:14			KMH
Copper		< MDL	mg/L	U	09/21/2009	14:14			KMH
Iron		5.04	mg/L		09/21/2009	14:14			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	SICPWATER-16771		QA Sample ID	AE25253					
Samples	AE25253 AE25254								
Metals by 200.7									
Lead		< MDL	mg/L	U	09/21/2009	14:14			KMH
Magnesium		12.1	mg/L		09/21/2009	14:14			KMH
Nickel		0.003	mg/L	I	09/21/2009	14:14			KMH
Selenium		< MDL	mg/L	U	09/21/2009	14:14			KMH
Silver		< MDL	mg/L	U	09/21/2009	14:14			KMH
Sodium		40.1	mg/L		09/21/2009	14:14			KMH
Thallium		< MDL	mg/L	U	09/21/2009	14:14			KMH
Vanadium		0.0034	mg/L		09/21/2009	14:14			KMH
Zinc		< MDL	mg/L	U	09/21/2009	14:14			KMH
LCS Result for Metals by 200.7									
Antimony		1.02	mg/L		09/21/2009	13:24			KMH
Arsenic		1.01	mg/L		09/21/2009	13:24			KMH
Barium		0.251	mg/L		09/21/2009	13:24			KMH
Beryllium		0.052	mg/L		09/21/2009	13:24			KMH
Cadmium		0.242	mg/L		09/21/2009	13:24			KMH
Calcium		50.5	mg/L		09/21/2009	13:24			KMH
Chromium		0.256	mg/L		09/21/2009	13:24			KMH
Cobalt		0.245	mg/L		09/21/2009	13:24			KMH
Copper		1.03	mg/L		09/21/2009	13:24			KMH
Iron		6.42	mg/L		09/21/2009	13:24			KMH
Lead		1.01	mg/L		09/21/2009	13:24			KMH
Magnesium		49.3	mg/L		09/21/2009	13:24			KMH
Nickel		0.251	mg/L		09/21/2009	13:24			KMH
Selenium		1.03	mg/L		09/21/2009	13:24			KMH
Silver		0.258	mg/L		09/21/2009	13:24			KMH
Sodium		101	mg/L		09/21/2009	13:24			KMH
Thallium		0.955	mg/L		09/21/2009	13:24			KMH
Vanadium		0.259	mg/L		09/21/2009	13:24			KMH
Zinc		0.989	mg/L		09/21/2009	13:24			KMH
MSD Result for Metals by 200.7									
Antimony		1.05	mg/L		09/21/2009	14:35			KMH
Arsenic		1.04	mg/L		09/21/2009	14:35			KMH
Barium		0.266	mg/L		09/21/2009	14:35			KMH
Beryllium		0.053	mg/L		09/21/2009	14:35			KMH
Cadmium		0.241	mg/L		09/21/2009	14:35			KMH
Calcium		93.5	mg/L		09/21/2009	14:35			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-16771	QA Sample ID	AE25253					
Samples	AE25253 AE25254							
MSD Result for Metals by 200.7								
Chromium		0.260	mg/L		09/21/2009 14:35			KMH
Cobalt		0.249	mg/L		09/21/2009 14:35			KMH
Copper		1.05	mg/L		09/21/2009 14:35			KMH
Iron		11.5	mg/L		09/21/2009 14:35			KMH
Lead		1.01	mg/L		09/21/2009 14:35			KMH
Magnesium		62.2	mg/L		09/21/2009 14:35			KMH
Nickel		0.257	mg/L		09/21/2009 14:35			KMH
Selenium		1.03	mg/L		09/21/2009 14:35			KMH
Silver		0.261	mg/L		09/21/2009 14:35			KMH
Sodium		144	mg/L		09/21/2009 14:35			KMH
Thallium		0.937	mg/L		09/21/2009 14:35			KMH
Vanadium		0.262	mg/L		09/21/2009 14:35			KMH
Zinc		0.998	mg/L		09/21/2009 14:35			KMH
Batch Name	AMM-16730	QA Sample ID	AE27718					
Samples	AE25253 AE25254							
Ammonia		52.5	mg/L		09/14/2009 13:27			AMC
Sample Dup for Ammonia		52.2	mg/L		09/14/2009 13:28			AMC
Samp Dup Precision for Ammonia		0.573	%		09/14/2009 13:28			AMC
Cont Calb Rec for Ammonia		97.3	%		09/14/2009 13:40			AMC
Continuing Cal. Blank for Ammonia		<MDL	mg/L	U	09/14/2009 13:41			AMC
Method Blank for Ammonia		<MDL	mg/L		09/14/2009 13:25			AMC
Continuous Calibration for Ammonia		2.92	mg/L		09/14/2009 13:40			AMC
Initial Calibration for Ammonia		1.04	mg/L		09/14/2009 13:26			AMC
Int Calb Rec for Ammonia		104	%		09/14/2009 13:26			AMC
Batch Name	AMM-16730A	QA Sample ID	AE27722					
Samples	AE25253 AE25254							
Ammonia		0.650	mg/L		09/14/2009 13:29			AMC
Amt Spiked for Ammonia		0.500	mg/L		09/14/2009 13:39			AMC
MS Result for Ammonia		1.15	mg/L		09/14/2009 13:39			AMC
MS Recovery for Ammonia		100	%		09/14/2009 13:39			AMC
Batch Name	CBOD-16719	QA Sample ID	AE28352					
Samples	AE28305 AE28306							
Method Blank for Carbonaceous BOD (5 day)		<MDL	mg/L	U	09/19/2009 10:55			IR/KMH
Carbonaceous BOD (5 day)		49.7	mg/L		09/19/2009 10:55			IR/KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name CBOD-16719		QA Sample ID	AE28352						
Samples AE28305 AE28306									
Sample Dup for CBOD		52.2	mg/L		09/19/2009	10:55			IR/KMH
Initial Calibration for CBOD		189	mg/L		09/19/2009	10:55			IR/KMH
Int Calb Rec for CBOD		95.4	%		09/19/2009	10:55			IR/KMH
Samp Dup Precision for CBOD		2.45	%		09/19/2009	10:55			IR/KMH
Batch Name COD-16876		QA Sample ID	AE25253						
Samples AE25253 AE25254									
Amt Spiked for COD		100	mg/L		09/29/2009	13:40			EMM
Method Blank for COD		<MDL	mg/L	U	09/29/2009	13:40			EMM
Continuing Cal. Blank for COD		<MDL	mg/L	U	09/29/2009	13:40			EMM
Cont. Calib. for COD		910	mg/L		09/29/2009	13:40			EMM
Cont Calb Conc for COD		900	mg/L		09/29/2009	13:40			EMM
Cont Calb Rec for COD		101	%		09/29/2009	13:40			EMM
Chemical Oxygen Demand		92.7	mg/L		09/29/2009	13:40			EMM
Sample Dup for COD		95.4	mg/L		09/29/2009	13:40			EMM
Initial Calibration for COD		358	mg/L		09/29/2009	13:40			EMM
Int Calb Conc for COD		343	mg/L		09/29/2009	13:40			EMM
Int Calb Rec for COD		104	%		09/29/2009	13:40			EMM
Samp Dup Precision for COD		2.87	%		09/29/2009	13:40			EMM
MS Recovery for COD		101	%		09/29/2009	13:40			EMM
MS Result for COD		194	mg/L		09/29/2009	13:40			EMM
Batch Name FC-16677		QA Sample ID	AE28304						
Samples AE25253 AE25254									
Method Blank for Fecal Coliforms		<MDL	cfu/100 ml	U	09/10/2009	13:25			AMC/IR
Cont. Cal. Blank for Fecal Coliforms		<MDL	cfu/100 ml	U	09/10/2009	13:25			AMC/IR
Sample Dup for Fecal Coliforms		<MDL	cfu/100 ml	U	09/10/2009	13:25			AMC/IR
Fecal Coliforms		<MDL	cfu/100 ml	U	09/10/2009	13:25			AMC/IR
Samp Dup Precision for Fecal Coliforms		Pass	%		09/10/2009	13:25			AMC/IR
Batch Name NO2IC-16681		QA Sample ID	AE28315						
Samples AE25253 AE25254									
Amt Spiked for Nitrite		1.00	mg/L		09/10/2009	10:45			AMC
Method Blank for Nitrite		<MDL	mg/L	U	09/10/2009	09:23			AMC
Cont. Blank for Nitrite		<MDL	mg/L	U	09/10/2009	13:45			AMC
Cont. Cal. for Nitrite		5.02	mg/L		09/10/2009	13:28			AMC
Cont Calb Rec for Nitrite		100	%		09/10/2009	13:28			AMC
Sample Dup for Nitrite		<MDL	mg/L	U	09/10/2009	10:28			AMC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	NO2IC-16681	QA Sample ID	AE28315						
Samples	AE25253 AE25254								
Initial Cal. Std. for NO2IC		1.01	mg/L		09/10/2009	09:39			AMC
Init. Cal. Conc. for NO2IC		1.00	mg/L		09/10/2009	09:39			AMC
Init. Cal. Rec. for NO2IC		101	%		09/10/2009	09:39			AMC
Nitrite as N by Ion Chromatography		<MDL	mg/L	U	09/10/2009	10:12			AMC
Samp Dup Prec. for Nitrite		Passed	%		09/10/2009	10:28			AMC
MS Recovery for Nitrite		99.8	%		09/10/2009	10:45			AMC
MS Result for Nitrite		0.998	mg/L		09/10/2009	10:45			AMC
Batch Name	NO3IC-16682	QA Sample ID	AE28315						
Samples	AE25253 AE25254								
Amt Spiked for Nitrate		2.00	mg/L		09/10/2009	11:34			AMC
Method Blank for Nitrate		<MDL	mg/L	U	09/10/2009	09:23			AMC
Cont. Blank for Nitrate		<MDL	mg/L	U	09/10/2009	13:45			AMC
Cont. Cal. for Nitrate		10.1	mg/L		09/10/2009	13:28			AMC
Cont Calb Rec for Nitrate		101	%		09/10/2009	13:28			AMC
Sample Dup for Nitrate		13.2	mg/L		09/10/2009	11:17			AMC
Init. Cal. for Nitrate		23.0	mg/L		09/10/2009	09:55			AMC
Int Calb Conc for Nitrate		22.6	mg/L		09/10/2009	09:55			AMC
Int Calb Rec for Nitrate		102	%		09/10/2009	09:55			AMC
Nitrate as N by Ion Chromatography		13.2	mg/L		09/10/2009	11:01			AMC
Samp Dup Prec. for Nitrate		0.00	%		09/10/2009	11:17			AMC
MS Recovery for Nitrate		90.0	%		09/10/2009	11:34			AMC
MS Result for Nitrate		15.0	mg/L		09/10/2009	11:34			AMC
Batch Name	SEAA-16701	QA Sample ID	AE25253						
Samples	AE25253 AE25254								
Method Blank for Selenium		<MDL	mg/L	U	09/25/2009	19:01			KMH
Cont. Cal. Blank for Selenium		<MDL	mg/L	U	09/25/2009	21:00			KMH
Continuous Calibration for Selenium		0.052	mg/L		09/25/2009	20:48			KMH
Cont Calb Rec for Selenium		104	%		09/25/2009	20:48			KMH
Sample Dup for Selenium		0.0005	mg/L	I	09/25/2009	19:48			KMH
Initial Calibration for Selenium		0.055	mg/L		09/25/2009	19:13			KMH
Int Calb Rec for Selenium		110	%		09/25/2009	19:13			KMH
Samp Dup Precision for Selenium		33.3	%		09/25/2009	19:37			KMH
MS Recovery for Selenium		96.6	%		09/25/2009	19:37			KMH
MS Result for Selenium		0.049	mg/L		09/25/2009	20:00			KMH
MSD Result for Selenium by GFAAS		0.049	mg/L		09/25/2009	20:12			KMH

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	SEAA-16701	QA Sample ID	AE25253						
Samples	AE25253 AE25254								
Selenium by GFAAS		0.0007	mg/L	I	09/25/2009	19:37			KMH
MS/MSD Precision for Selenium by GFAAS		0.00	%		09/25/2009	20:00			KMH
Batch Name	TDS-16684	QA Sample ID	AE25253						
Samples	AE25253								
Method Blank for TDS		<MDL	mg/L	U	09/12/2009	10:24			AMC/IR
Sample Dup for TDS		372	mg/L		09/12/2009	10:24			AMC/IR
Initial Calibration for TDS		1020	mg/L		09/12/2009	10:24			AMC/IR
Int Calb Conc for TDS		970	mg/L		09/12/2009	10:24			AMC/IR
Int Calb Rec for TDS		105	%		09/12/2009	10:24			AMC/IR
Samp Dup Precision for TDS		Pass	%		09/12/2009	10:24			AMC/IR
Total Dissolved Solids		367	mg/L		09/12/2009	10:24			AMC/IR
Batch Name	TDS-16685	QA Sample ID	AE25254						
Samples	AE25254								
Sample Dup for TDS		644	mg/L		09/12/2009	10:24			AMC/IR
Samp Dup Precision for TDS		Pass	%		09/12/2009	10:24			AMC/IR
Total Dissolved Solids		647	mg/L		09/12/2009	10:24			AMC/IR
Batch Name	TKN-16736	QA Sample ID	AE28283						
Samples	AE25253								
Method Blank for TKN		<MDL	mg/L	U	09/16/2009	14:33			EMM
CCB for TKN		<MDL	mg/L	U	09/16/2009	14:55			EMM
CCV for TKN		4.97	mg/L		09/16/2009	14:54			EMM
CCV Recovery for TKN		99.4	%		09/16/2009	14:54			EMM
Sample Dup for TKN		54.2	mg/L		09/15/2009	14:38			EMM
ICV for TKN		1.94	mg/L		09/16/2009	14:35			EMM
ICV Recovery for TKN		97.0	%		09/16/2009	14:35			EMM
Dup Precision for TKN		1.49	%		09/15/2009	14:36			EMM
Total Kjeldahl Nitrogen		53.4	mg/L		09/15/2009	14:36			EMM
Batch Name	TKN-16736A	QA Sample ID	AE28287						
Samples	AE25253								
Amt Spiked for TKN		2.00	mg/L		09/15/2009	14:41			EMM
MS Recovery for TKN		99.0	%		09/15/2009	14:39			EMM
MS Result for TKN		3.54	mg/L		09/15/2009	14:41			EMM
Total Kjeldahl Nitrogen		1.56	mg/L		09/15/2009	14:39			EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	TKN-16877	QA Sample ID	AE28400						
Samples	AE25254								
Method Blank for TKN		<MDL	mg/L	U	09/29/2009	13:39			AMC
CCB for TKN		<MDL	mg/L	U	09/29/2009	14:01			AMC
CCV for TKN		5.32	mg/L		09/29/2009	13:59			AMC
CCV Recovery for TKN		106	%		09/29/2009	15:59			AMC
Sample Dup for TKN		454	mg/L		09/29/2009	13:43			AMC
ICV for TKN		2.09	mg/L		09/29/2009	13:40			AMC
ICV Recovery for TKN		104	%		09/29/2009	13:40			AMC
Dup Precision for TKN		1.10	%		09/29/2009	13:43			AMC
Total Kjeldahl Nitrogen		459	mg/L		09/29/2009	13:42			AMC
Batch Name	TKN-16877A	QA Sample ID	AE28474						
Samples	AE25254								
Amt Spiked for TKN		2.00	mg/L		09/29/2009	13:46			AMC
MS Recovery for TKN		98.5	%		09/29/2009	13:53			AMC
MS Result for TKN		3.51	mg/L		09/29/2009	13:53			AMC
Total Kjeldahl Nitrogen		1.54	mg/L		09/29/2009	13:53			AMC
Batch Name	TLAA-16727	QA Sample ID	AE27718						
Samples	AE25253 AE25254								
Method Blank for Thallium by GFAAS		<MDL	mg/L	U	09/15/2009	17:22			KMH
Continuing Cal. Blank for Thallium by GF		<MDL	mg/L	U	09/15/2009	19:55			KMH
Continuous Calibration for Thallium by G		0.022	mg/L		09/15/2009	19:44			KMH
Cont Calb Rec for Thallium by GFAAS		110	%		09/15/2009	19:44			KMH
Sample Dup for Thallium by GFAAS		<MDL	mg/L	U	09/15/2009	18:03			KMH
Initial Calibration for Thallium by GFAA		0.051	mg/L		09/15/2009	17:32			KMH
Int Calb Rec for Thallium by GFAAS		102	%		09/15/2009	17:32			KMH
Samp Dup Precision for Thallium by GFAAS		Passed	%		09/15/2009	17:52			KMH
MS Recovery for Thallium by GFAAS		106	%		09/15/2009	17:52			KMH
MS Result for Thallium by GFAAS		0.053	mg/L		09/15/2009	18:13			KMH
MSD Result for Thallium by GFAAS		0.053	mg/L		09/15/2009	18:23			KMH
MS/MSD Precision for Thallium by GFAAS		0.00	%		09/15/2009	18:13			KMH
Thallium by GFAAS		<MDL	mg/L	U	09/15/2009	17:52			KMH
Batch Name	TOC-16720	QA Sample ID	AE28176						
Samples	AE25253 AE25254								
Method Blank for TOC		< MDL	mg/L		09/14/2009	14:39			AMC
Cont. Cal. Blank for TOC		<MDL	mg/L		09/14/2009	21:36			AMC
Cont Cal TOC		9.93	mg/L		09/14/2009	21:05			AMC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	TOC-16720	QA Sample ID	AE28176						
Samples	AE25253 AE25254								
Cont Calb Rec for TOC		99.3	%		09/14/2009	21:05			AMC
Dup for TOC		1.66	mg/L		09/14/2009	15:45			AMC
ICV for TOC		4.94	mg/L		09/14/2009	15:01			AMC
ICV Rec for TOC		98.8	%		09/14/2009	15:01			AMC
Dup Precision for TOC		0.00	%		09/14/2009	15:23			AMC
MS Recovery for TOC		93.6	%		09/14/2009	15:23			AMC
MS Result for TOC		6.34	mg/L		09/14/2009	16:10			AMC
Total Organic Carbon		1.66	mg/L		09/14/2009	15:23			AMC
Batch Name	TOC-16913	QA Sample ID	AE28179						
Samples	AE25254								
Method Blank for TOC		< MDL	mg/L	U	10/05/2009	14:02			IR
Cont. Cal. Blank for TOC		<MDL	mg/L	U	10/05/2009	19:48			IR
Cont Cal TOC		9.93	mg/L		10/05/2009	19:27			IR
Cont Calb Rec for TOC		99.3	%		10/05/2009	19:27			IR
Dup for TOC		< MDL	mg/L	U	10/05/2009	15:19			IR
ICV for TOC		4.65	mg/L		10/05/2009	14:30			IR
ICV Rec for TOC		93.0	%		10/05/2009	14:30			IR
Dup Precision for TOC		Passed	%		10/05/2009	15:19			IR
MS Recovery for TOC		97.4	%		10/05/2009	14:54			IR
MS Result for TOC		4.87	mg/L		10/05/2009	15:47			IR
Total Organic Carbon		< MDL	mg/L	U	10/05/2009	14:54			IR
Batch Name	T-P-16756	QA Sample ID	AE28279						
Samples	AE25253 AE25254								
Method Blank for Total Phosphate		<MDL	mg/L	U	09/16/2009	15:51			IR
CCB for Total Phosphate		<MDL	mg/L	U	09/16/2009	16:00			IR
CCV for Total Phosphate		2.00	mg/L		09/16/2009	16:00			IR
CCV Recovery for Total Phosphate		100	%		09/16/2009	16:00			IR
Sample Dup for Total Phosphate		3.70	mg/L		09/16/2009	15:53			REED
ICV for Total Phosphate		1.02	mg/L		09/16/2009	15:51			IR
ICV Recovery for Total Phosphate		102	%		09/16/2009	15:51			IR
Samp Dup Precision for Total Phosphate		1.08	%		09/16/2009	15:52			REED
Total Phosphate as P		3.74	mg/L		09/16/2009	15:52			REED
Batch Name	T-P-16756A	QA Sample ID	AE28287						
Samples	AE25253 AE25254								
Amt Spiked for Total Phosphate		0.50	mg/L		09/16/2009	15:54			REED

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name	T-P-16756A	QA Sample ID	AE28287						
Samples	AE25253 AE25254								
MS Recovery for Total Phosphate		101	%		09/16/2009	15:53			REED
MS Result for Total Phosphate		1.23	mg/L		09/16/2009	15:54			REED
Total Phosphate as P		0.727	mg/L		09/16/2009	15:53			REED
Batch Name	TSS-16749	QA Sample ID	AE28382						
Samples	AE28305 AE28306								
Method Blank for TSS		<MDL	mg/L	U	09/15/2009	14:35			AMC
Sample Dup for TSS		310	mg/L		09/15/2009	14:35			AMC
Initial Calibration for TSS		96.0	mg/L		09/15/2009	14:35			AMC
Int Calb Conc for TSS		96.6	mg/L		09/15/2009	14:35			AMC
Int Calb Rec for TSS		99.4	%		09/15/2009	14:35			AMC
Samp Dup Precision for TSS		Pass	%		09/15/2009	14:35			AMC
Total Suspended Solids		300	mg/L		09/15/2009	14:35			AMC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
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A	Value reported is the mean (average) of two or more determinations
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests, specifically to membrane filter colony counts, and is used only if the colony count is generated from a plate
C	in which the total number of coliform colonies <u>exceeds</u> the method indicated ideal ranges.
E	Analysis performed by contract laboratory
H	Indicates that extra samples were taken at composite stations
I	Value based on field kit determination; results may not be accurate
J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
K	*Estimated value
L	Indicates off scale low and the actual value is known to be less than the value listed. Used if the value is less than the lowest calibration standard when the calibration curve is known to be non-linear. Can also be used if the actual value is known to be less than the reported value based on sample size, dilution.
M	Off scale high and the actual value is known to be greater than the reported value. Used when the sample concentration of the analyte exceeds the linear range or highest calibration standard and the calibration curve is known to exhibit a negative deflection.
N	To be used for chemical analysis: the presence of the analyte is verified but not quantified and the actual value is less than the value reported.
O	Presumptive evidence of presence of compound. To be used when the compound has been determined by TIC (mass spectral library search) or if presence of the compound cannot be confirmed using alternate procedures
P	Indicates analysis was lost or not performed
Q	Analyzed after holding time expired
R	Significant rain in the past 24 hours
S	Reported value is less than the laboratory method detection limit. The value is reported for informational purposes only and is not used in statistical analysis.
T	Indicated that the compound was analyzed for but not detected
U	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of the 10 times the blank value was equal to or greater than the associated sample value. Note: unless specified by the method, the value in the blank shall not be subtracted from associated samples
V	Time of collection not provided
X	Laboratory analysis was performed on sample, which was unpreserved or improperly preserved, therefore, the data may be inaccurate.
Y	Too many colonies present. (TNTC)
Z	Analysis was not performed due to interference
*	No sample received
#	Data are rejected should not be used since some or all quality control data for the analyte fall outside limits and the presence or absence of the analyte cannot be determined from the data
?	no data reported
"-"	Data deviate from historically established concentration ranges
!	

***Note**

a "J" value shall not be used as a substitute for K, L, M, T, V or Y, however, if additional reasons exist for identifying the value as an estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. Examples of situations in which code "J" must be reported include:

- + where a quality control item associated with the reported value(s) failed to meet the established quality control criteria (the specific failure must be identified)
- + when the sample matrix interferes with the ability to make any accurate determination
- + when data is questionable due to improper or field protocols
- + when the analyte was detected at or above the method detection limits (MDL) in a blank other than the method blank (such as calibration blank or field-generated blanks and the value of 10 times the blank value was equal to or greater than the associated sample
- + when the field or laboratory calibrations or calibration verifications did not meet calibration acceptance criteria.

Southern Analytical Laboratories, Inc.

110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 Phone: (813)855-1844 Fax: (813)855-2218



Manatee County Utility Operations Central
4751 66th Street West
Bradenton, FL 34210

October 3, 2009
Project No: 859
Revised

Laboratory Report

Project Name **LENA RD COUNTY LF (SW)**

Sample Description **Stormwater Overflow @ North Weir (SW-1) AE25253**
 Matrix **Surface Water**
 SAL Sample Number **85901**
 Date/Time Collected **09/09/09 11:25**
 Collected by **Larry Ward of Southern Analytical Laboratories, Inc.**
 Date/Time Received **09/09/09 13:38**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Field Parameter								
Dissolved Oxygen	mg/L	2.3	FT 1500				09/09/09 11:25	LW
pH	SU	6.6	FT 1100				09/09/09 11:25	LW
Specific Conductance	umhos/cm	486	FT 1200				09/09/09 11:25	LW
Temperature, Water	Deg C	26.6	FT 1400				09/09/09 11:25	LW
Turbidity	NTU	35	FT 1600				09/09/09 11:25	LW
VOCs - Appendix 1								
Acetone	ug/L	2 U	EPA 8260	4	2		09/17/09 21:53	JRW
Acrylonitrile	ug/L	2 U	EPA 8260	4	2		09/17/09 21:53	JRW
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Bromochloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
Bromodichloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Bromoform	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Bromomethane	ug/L	0.6 U	EPA 8260	2	0.6		09/17/09 21:53	JRW
2-Butanone	ug/L	0.6 U	EPA 8260	4	0.6		09/17/09 21:53	JRW
Carbon Disulfide	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
Chlorobenzene	ug/L	0.04 U	EPA 8260	0.8	0.04		09/17/09 21:53	JRW
Chloroethane	ug/L	0.4 U	EPA 8260	2	0.4		09/17/09 21:53	JRW
Chloroform	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Chloromethane	ug/L	0.5 U	EPA 8260	2	0.5		09/17/09 21:53	JRW
Dibromochloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
1,2-Dibromo-3-chloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
1,2-Dibromoethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/17/09 21:53	JRW
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,4-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,1-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,1-Dichloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
cis-1,2-Dichloroethene	ug/L	0.08 U	EPA 8260	0.8	0.08		09/17/09 21:53	JRW
trans-1,2-Dichloroethene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/17/09 21:53	JRW
1,2-Dichloropropane	ug/L	0.06 U	EPA 8260	0.8	0.06		09/17/09 21:53	JRW
cis-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
trans-1,3-Dichloropropene	ug/L	0.06 U	EPA 8260	0.8	0.06		09/17/09 21:53	JRW

FDOH Laboratory No.E84129
 NELAP Accredited

Francis I. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

Southern Analytical Laboratories, Inc.

110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 Phone: (813)855-1844 Fax: (813)855-2218



Manatee County Utility Operations Central
4751 66th Street West
Bradenton, FL 34210

October 3, 2009
Project No: 859
Revised

Laboratory Report

Project Name

LENA RD COUNTY LF (SW)

Sample Description **Stormwater Overflow @ North Weir (SW-1) AE25253**
Matrix **Surface Water**
SAL Sample Number **85901**
Date/Time Collected **09/09/09 11:25**
Collected by **Larry Ward of Southern Analytical Laboratories, Inc.**
Date/Time Received **09/09/09 13:38**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Ethylbenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
2-Hexanone	ug/L	0.3 U	EPA 8260	4	0.3		09/17/09 21:53	JRW
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
4-Methyl-2-pentanone	ug/L	0.4 U	EPA 8260	4	0.4		09/17/09 21:53	JRW
Methylene Chloride	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Styrene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,1,1,2-Tetrachloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,1,2,2-Tetrachloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Tetrachloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
Toluene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
1,1,1-Trichloroethane	ug/L	0.09 U	EPA 8260	0.8	0.09		09/17/09 21:53	JRW
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
Trichloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
1,2,3-Trichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 21:53	JRW
Vinyl Acetate	ug/L	0.5 U	EPA 8260	2	0.5		09/17/09 21:53	JRW
Vinyl chloride	ug/L	0.4 U	EPA 8260	2	0.4		09/17/09 21:53	JRW
Xylene, m,p-	ug/L	0.2 U	EPA 8260	2	0.2		09/17/09 21:53	JRW
Xylene, o-	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 21:53	JRW
<u>Pesticide Analysis</u>								
1,2-Dibromo-3-chloropropane	ug/L	0.005 U	EPA 8011	0.02	0.005	09/12/09 13:45	09/15/09 11:33	BTJ
1,2-Dibromoethane	ug/L	0.005 U	EPA 8011	0.02	0.005	09/12/09 13:45	09/15/09 11:33	BTJ
<u>Inorganics</u>								
Chlorophyll a, corrected	mg/m3	15	SM10200H	2	2	09/09/09 16:36	09/15/09 16:54	MTU
<u>Metals</u>								
Mercury	ng/L	1.0	EPA 1631	0.5	0.2		09/11/09 12:40	MKB

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Manatee County Utility Operations Central
4751 66th Street West
Bradenton, FL 34210

October 3, 2009
Project No: 859
Revised

Laboratory Report

Project Name **LENA RD COUNTY LF (SW)**

Sample Description **Stormwater Overflow @ South Weir (SW-2) AE25254**
 Matrix **Surface Water**
 SAL Sample Number **85902**
 Date/Time Collected **09/09/09 10:50**
 Collected by **Larry Ward of Southern Analytical Laboratories, Inc.**
 Date/Time Received **09/09/09 13:38**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Field Parameter								
Dissolved Oxygen	mg/L	1.3	FT 1500				09/09/09 10:50	LW
pH	SU	6.1	FT 1100				09/09/09 10:50	LW
Specific Conductance	umhos/cm	864	FT 1200				09/09/09 10:50	LW
Temperature, Water	Deg C	27.6	FT 1400				09/09/09 10:50	LW
Turbidity	NTU	220	FT 1600				09/09/09 10:50	LW
VOCs - Appendix 1								
Acetone	ug/L	2 U	EPA 8260	4	2		09/17/09 22:23	JRW
Acrylonitrile	ug/L	2 U	EPA 8260	4	2		09/17/09 22:23	JRW
Benzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Bromochloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
Bromodichloromethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Bromoform	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Bromomethane	ug/L	0.6 U	EPA 8260	2	0.6		09/17/09 22:23	JRW
2-Butanone	ug/L	0.6 U	EPA 8260	4	0.6		09/17/09 22:23	JRW
Carbon Disulfide	ug/L	0.17 I	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Carbon tetrachloride	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
Chlorobenzene	ug/L	0.04 U	EPA 8260	0.8	0.04		09/17/09 22:23	JRW
Chloroethane	ug/L	0.4 U	EPA 8260	2	0.4		09/17/09 22:23	JRW
Chloroform	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Chloromethane	ug/L	0.5 U	EPA 8260	2	0.5		09/17/09 22:23	JRW
Dibromochloromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
1,2-Dibromo-3-chloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
1,2-Dibromoethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Dibromomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
trans-1,4-Dichloro-2-butene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/17/09 22:23	JRW
1,2-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,4-Dichlorobenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,1-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,2-Dichloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,1-Dichloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
cis-1,2-Dichloroethene	ug/L	0.08 U	EPA 8260	0.8	0.08		09/17/09 22:23	JRW
trans-1,2-Dichloroethene	ug/L	0.3 U	EPA 8260	0.8	0.3		09/17/09 22:23	JRW
1,2-Dichloropropane	ug/L	0.06 U	EPA 8260	0.8	0.06		09/17/09 22:23	JRW
cis-1,3-Dichloropropene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
trans-1,3-Dichloropropene	ug/L	0.06 U	EPA 8260	0.8	0.06		09/17/09 22:23	JRW

FDOH Laboratory No.E84129
 NELAP Accredited

Francis I. Daniels, Laboratory Director
 Leslie C. Boardman, Q.A. Manager

Southern Analytical Laboratories, Inc.

110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 Phone: (813)855-1844 Fax: (813)855-2218



Manatee County Utility Operations Central
4751 66th Street West
Bradenton, FL 34210

October 3, 2009
Project No: 859
Revised

Laboratory Report

Project Name **LENA RD COUNTY LF (SW)**

Sample Description **Stormwater Overflow @ South Weir (SW-2) AE25254**
Matrix **Surface Water**
SAL Sample Number **85902**
Date/Time Collected **09/09/09 10:50**
Collected by **Larry Ward of Southern Analytical Laboratories, Inc.**
Date/Time Received **09/09/09 13:38**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
Ethylbenzene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
2-Hexanone	ug/L	0.3 U	EPA 8260	4	0.3		09/17/09 22:23	JRW
Iodomethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
4-Methyl-2-pentanone	ug/L	0.4 U	EPA 8260	4	0.4		09/17/09 22:23	JRW
Methylene Chloride	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Styrene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,1,1,2-Tetrachloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,1,2,2-Tetrachloroethane	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Tetrachloroethene	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
Toluene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
1,1,1-Trichloroethane	ug/L	0.09 U	EPA 8260	0.8	0.09		09/17/09 22:23	JRW
1,1,2-Trichloroethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
Trichloroethene	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Trichlorofluoromethane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
1,2,3-Trichloropropane	ug/L	0.2 U	EPA 8260	0.8	0.2		09/17/09 22:23	JRW
Vinyl Acetate	ug/L	0.5 U	EPA 8260	2	0.5		09/17/09 22:23	JRW
Vinyl chloride	ug/L	0.4 U	EPA 8260	2	0.4		09/17/09 22:23	JRW
Xylene, m,p-	ug/L	0.2 U	EPA 8260	2	0.2		09/17/09 22:23	JRW
Xylene, o-	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW
Xylenes- Total	ug/L	0.1 U	EPA 8260	0.8	0.1		09/17/09 22:23	JRW

Pesticide Analysis

1,2-Dibromo-3-chloropropane	ug/L	0.005 U	EPA 8011	0.02	0.005	09/12/09 13:45	09/15/09 11:54	BTJ
1,2-Dibromoethane	ug/L	0.005 U	EPA 8011	0.02	0.005	09/12/09 13:45	09/15/09 11:54	BTJ

Inorganics

Chlorophyll a, corrected	mg/m3	3.8	SM10200H	2	2	09/09/09 16:36	09/15/09 16:54	MTU
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Metals

Mercury	ng/L	0.82	EPA 1631	0.5	0.2		09/11/09 12:40	MKB
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Southern Analytical Laboratories, Inc.

110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 Phone: (813)855-1844 Fax: (813)855-2218



Manatee County Utility Operations Central
4751 66th Street West
Bradenton, FL 34210

October 3, 2009
Project No: 859
Revised

Laboratory Report

Project Name **LENA RD COUNTY LF (SW)**

Sample Description **Field Blank**
Matrix **Surface Water**
SAL Sample Number **85903**
Date/Time Collected **09/09/09 10:43**
Collected by **Larry Ward of Southern Analytical Laboratories, Inc.**
Date/Time Received **09/09/09 13:38**

Parameters	Units	Results *	Method	PQL	MDL	Prepared	Analyzed	By
<u>Metals</u>								
Mercury	ng/L	0.2 U	EPA 1631	0.5	0.2		09/11/09 12:40	MKB

Southern Analytical Laboratories, Inc.

110 BAYVIEW BOULEVARD OLDSMAR, FL 34677 Phone: (813)855-1844 Fax: (813)855-2218



Manatee County Utility Operations Central
4751 66th Street West
Bradenton, FL 34210

October 3, 2009
Project No: 859
Revised

* Analytical Results Qualifiers

LENA RD COUNTY LF (SW)

PARAMETER QUALIFIERS

Results followed by a "U" indicate that the sample was analyzed but the compound was not detected. Results followed by "I" indicate that the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

A statement of estimated uncertainty of test results is available upon request.

Test results presented in this report meet all the requirements of the NELAC standards. Any applicable qualifiers are shown below.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No.

$$W_0 = 859$$

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project No. 95385

Chain of Custody.xls
Rev.Date 11/19/01

Chain of Custody

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project# 95385
Date: 9/9/09**Surface Water Sampling Log**

Client Name:	Manatee County Utilities, Inc.	Location:	Lena Road Landfill	Contact:	Jeff Goodwin
Surface Water Description:	SW-1 (AEO 7056)	Sample ID:	95385.01	Phone:	941-792-8811 X 5235
Date Sampled:				GPS LONG:	
				GPS LAT:	

Sampling Data

Sampled By / Affiliation	SAL	Sampler Signature:	<i>Long Wood</i>		
Sampling Device:	Direct to Container	Time Collected:	<i>1125</i>		
Sampling location relative to shore		From Shore			
Method of approach (wading, boat, overhang, etc.)		From Shore			
Depth of sample (ft.)					
Est. Flow Rate (if applicable)					
pH		<i>6.6</i>			
Specific Conductance (umhos)		<i>486.0</i>			
Temperature (°C)		<i>26.4</i>			
Dissolved Oxygen (mg/L)		<i>2.26</i>			
Turbidity (NTU)		<i>34.6</i>			
Sample Appearance		<i>Trans</i>			
Sample Odor		<i>None</i>			
Field Decontamination:		Y	N	Field Filtered:	Y N Duplicate: Y N
Preservation Checked in the field?		Y	N	Initials:	
Field Cleaned (List sequence and all solutions used):					

Site and Weather Conditions:

Clear

Comments (use back of form if necessary)

SOUTHERN ANALYTICAL LABORATORIES, INC.

110 BAYVIEW BOULEVARD, OLDSMAR, FL 34677 813-855-1844 fax 813-855-2218

SAL Project# 95385
Date: 9/9/09**Surface Water Sampling Log**

Client Name:	Manatee County Utilities, Inc.	Location:	Lena Road Landfill	Contact:	Jeff Goodwin
Surface Water Description:	SW-2 (AEO 7057)	Sample ID:	95385.02	Phone:	941-792-8811 X 5235
Date Sampled:				GPS LONG:	
				GPS LAT:	

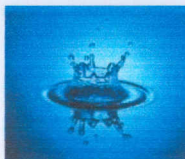
Sampling Data

Sampled By / Affiliation	SAL	Sampler Signature:	<i>Lay Weel</i>					
Sampling Device:	Direct to Container	Time Collected:	1050					
Sampling location relative to shore		From Shore						
Method of approach (wading, boat, overhang, etc.)		From Shore						
Depth of sample (ft.)								
Est. Flow Rate (if applicable)								
pH		6.1						
Specific Conductance (umhos)		604						
Temperature (°C)		27.4						
Dissolved Oxygen (mg/L)		1.29						
Turbidity (NTU)		221						
Sample Appearance		TANIS						
Sample Odor		WUN						
Field Decontamination:	Y	N	Field Filtered:	Y	N	Duplicate:	Y	N
Preservation Checked in the field?	Y	N	Initials:					
Field Cleaned (List sequence and all solutions used):								

Site and Weather Conditions:

Clean

Comments (use back of form if necessary)



Southern Analytical Laboratories, Inc.
110 Bayview Blvd.
Oldsmar, FL 34677

Invoice

Date	Invoice #
09/29/2009	103348

Bill To
Clerk of the Circuit Court Manatee County Finance Department PO Box 1000 Bradenton, FL 34206-1000

P.O. No.	Terms	Date Received	Project No.
B0903247	Net 45 Days	09/09/2009	859

Qty	Description	Rate	Amount
	Surface Water Analyses, Lena Road		
	Section C		
2	7A. 40 CFR Part 258 Appendix I Organics	75.00	150.00
2	7B. Dibromochloropropane, Ethylene dibromide	40.00	80.00
2	9B. Chlorophyll a	20.00	40.00
3	8G. Sampling, including travel	60.00	180.00
	Section B		
3	20J. Mercury, Low Level	35.00	105.00
Please remit this amount to the address above. Thank you.		Total	\$555.00