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GL
SW
LEACHATE

July 8, 2006

Mr. John Morris, P.G.
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619-8318

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUL 14 2006

SOUTHWEST DISTRICT
TAMPA

**Re: Semi-Annual Water Quality Monitoring Report
First Half 2006 Sampling Event
Lena Road Landfill
GMS ID No. 4041M02025
Modification #39884-012-SO/MM to existing FDEP Permit No. 39884-010-SO/01**

Dear Mr. Morris:

On behalf of the Solid Waste Division of Manatee County's Utility Operations Department, PBS&J is pleased to present this Semi-Annual Water Quality Monitoring Report for the first half 2006 sampling event at the Lena Road Landfill (LRL) in Manatee County. This document is designed to meet the requirements of Specific Condition 11 of the modification referenced above to LRL's permit, and was prepared in general accordance with the guidelines promulgated in Chapter 62-701.510(9)(a) of the Florida Administrative Code (FAC).

BACKGROUND

The LRL facility is located at 3333 Lena Road in Bradenton, Florida. The LRL facility operates under Permit Number 39884-010-SO, which is on file with the Florida Department of Environmental Protection (FDEP). The LRL is constructed with a perimeter slurry wall in three stages that are designated Stages I, II and III. Landfill leachate is collected by a leachate collection system.

The water quality monitoring network at the LRL consists of the following components:

- The leachate samples are collected from the lift stations.
- Groundwater samples are collected from 18 monitoring wells, which are designated GW-1 through GW-17, and BGW-1. All of the wells are used to monitor the quality of the groundwater of the surficial aquifer. GW-1 through GW-17 are detection wells, and BGW-1 is the designated background well. This is a new groundwater monitoring network at the LRL. All of these wells except GW-11 were installed in the summer of

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2005. The old well network was abandoned at that time. Installation of GW-11 was postponed until April 2006 because of construction activities.

- The surface water samples are collected from two points along the Cypress Strand. One is located upstream of the LRL and is designated SW-2, and the other, designated SW-1, is located downstream of the LRL.

The layout of the water quality monitoring network is presented in Figure 1.

Leachate, groundwater and surface water samples were collected from the LRL network for the first half 2006 sampling event during the period between February 27 and 28, 2006. The samples were collected by representatives of Southern Analytical Laboratories, Inc. The samples were analyzed for the inorganic parameters by Manatee County Utility Operations' Central Wastewater Laboratory, and were analyzed for the other parameters by Southern Analytical Laboratories, Inc. The leachate, surface water and groundwater samples were analyzed for the parameters listed in Specific Conditions 8(a), 9(c) and 4 (c), respectively, of the LRL's permit modification. Because of the delay in installing GW-11, it was sampled initially in April 2006. The sample was analyzed for the parameters listed in Specific Condition 4(b) of the LRL's permit modification. The results of the initial sampling are included in this report.

A Florida Department of Environmental Protection (FDEP) Ground Water Monitoring Report form for the first half 2006 sampling event at the LRL is provided in Attachment A.

FIRST HALF 2006 SAMPLING EVENT METHODOLOGY

The samples were collected in general accordance with the FDEP's Standard Operating Procedure for Field Activities (SOP 001/01). Prior to sampling the monitoring wells, they were purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. Copies of the field data sheets and the field equipment calibration logs from this sampling event are provided in Attachment B.

Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. The water level measurements were subtracted from the TOC elevations to determine the elevation of the water table at each well. The TOC and water level elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD).

FIRST HALF 2006 SAMPLING EVENT RESULTS

Leachate Analytical Results

The only detections in the leachate samples during this sampling event were numerous inorganic analytes, which were detected in all three leachate samples, and one pesticide/herbicide, 2,4,5-T, which was detected in one leachate sample. The concentration of every parameter that was detected in the leachate was compared to the regulatory levels listed in 40 CFR Part 261.24, as required by the Florida solid waste regulations. A standard has not been established for every parameter. None of the parameter concentrations detected in the leachate exceeded their respective regulatory level.

A summary of the leachate analytical results is presented in Table 1. The complete leachate analytical report is provided in Attachment C-1.

Groundwater Analytical Results

The only analytes that were detected in the groundwater during this sampling event were inorganic parameters, including all of those that were tested except for beryllium, cadmium, copper, lead, mercury, and silver. A summary of the groundwater analytical results is presented in Table 2. The complete groundwater analytical report is provided in Attachment C-2.

All of the parameters detected in the groundwater samples were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the solid waste regulations. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated in Chapter 62-550 FAC. Not every parameter has an MCL or SDWS. Six parameters, pH, antimony, arsenic, chloride, iron, and TDS, were detected in at least one well location at a concentration that exceeds the standards. A description of the detection patterns with these parameters is as follows:

- pH – The pH was lower than the prescribed SDWS range of 6.5 to 8.5 at all of the wells except GW-1, GW-2, GW-6, GW-9, GW-10, GW-14, and GW-16. The pH was also outside of the prescribed range at the background well.
- Antimony - The MCL for antimony is 0.006 milligrams per liter (mg/L). The antimony concentration in the samples collected at GW-13 exceeded the MCL.
- Arsenic – The MCL for arsenic is 0.01 mg/L. The arsenic concentration in the samples collected at GW-1, GW-2, GW-5, GW-9, GW-12, GW-14, and GW-15 exceeded the MCL.

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- Chloride – Chloride has an SDWS of 250 mg/L. The concentration of chloride exceeded the SDWS in the sample collected at GW-14.
- Iron – Iron has an SDWS of 0.3 mg/L. The concentration of iron exceeded the SDWS in the samples collected at all of the wells except GW-7, GW-8, and BGW-1.
- TDS - TDS has an SDWS of 500 mg/L. The concentration of TDS exceeded the SDWS in the samples collected at GW-10, GW-13, and GW-14.

GW-11 Analytical Results

The analytical results at GW-11 were similar to those of the rest of the wells in the network with exceedances of pH and iron. There were also detections of some base neutral analytes at very low concentrations.

A summary of the initial groundwater analytical results at GW-11 is presented in Table 3. The complete groundwater analytical report is provided in Attachment C-2.

Surface Water Analytical Results

There were no organic constituents detected in the surface water. However, all of the inorganic parameters except antimony, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, and silver were detected in at least one of the surface water samples. The concentrations of the inorganic parameters were compared to their respective Surface Water Cleanup Target Levels (SWCTLs) for Class III fresh water as a relative measure of the water quality. The SWCTLs are promulgated in Chapter 62-777, FAC. The only parameters that was detected in the surface water at a concentration in excess of its SWCTL were fecal coliform at SW-1, and arsenic, fecal coliform, and iron at SW-2. The field dissolved oxygen (DO) reading at SW-2 was also lower than the target level.

A summary of the surface water analytical results for each sampling event is presented in Table 4. The complete surface water analytical report is provided in Attachment C-3.

Groundwater Flow Pattern

The groundwater elevation data is presented in Table 5. The water level elevation data was plotted and contoured to generate the water table elevation contour map presented as Figure 2. The configuration of the water table indicates that the groundwater within the surficial aquifer

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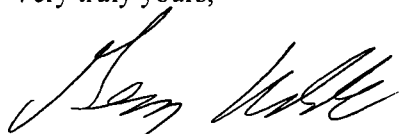
beneath the LRL (outside the boundary of the landfill) was flowing in a north-northwesterly direction during this sampling event. The average horizontal gradient of the water table across the site measured 0.0025 feet per foot (ft/ft).

SUMMARY AND CONCLUSIONS

The results of the first half 2006 sampling event at the LRL are similar to those of the recent sampling events, with numerous inorganic parameter detections in the leachate, groundwater and surface water, along with a few organic detections. The only parameters that were detected at concentrations in excess of the State regulatory standards were inorganic parameters in the groundwater and surface water, including pH, antimony, arsenic, chloride, iron, and TDS in the groundwater, and arsenic, fecal coliform, and iron in the surface water. The parameters that were consistently detected were pH and iron. Both of these parameters have SDWSs. These parameters were also detected at elevated concentrations at the background wells, suggesting that their presence reflects the natural chemistry of the groundwater in the area.

If you have any questions regarding this report or need any additional information then please call me at (407) 647-7275, ext. 4339.

Very truly yours,



Greg Mudd, P.G.
Senior Geologist

C: Mr. Gus DiFonzo, Manatee County Solid Waste Division
File, 120498.91 9300

TABLES

Table 4
Surface Water Analytical Summary
Lena Road Landfill
First Half 2006

Analyte	Location:		SW-1	SW-2
	Sample Identifier:		SW-1	SW-2
	Date of Test:		02/27/06	02/27/06
	Standard(1)	Units		
Field Measurements				
Temperature		deg. C	16.5	16.5
pH		STD	7.5	6.6
Conductivity		umhos/cm	580	390
Dissolved Oxygen (DO)	<5	mg/l	6.5	4
Turbidity	29	NTU	6.8	45
Inorganics				
Ammonia		mg/l	0.047	0.067
Antimony	4.3	mg/l	≤0.0015	≤0.0015
Arsenic	0.01	mg/l	≤0.007	0.027
Barium		mg/l	0.012	0.016
Beryllium	0.13	mg/l	≤0.0002	≤0.0002
Biochemical Oxygen Demand (BOD)		mg/l	≤2.00	2.03
Cadmium	Note 2	mg/l	≤0.0005	≤0.0005
Calcium		mg/l	45	28
Chemical Oxygen Demand (COD)		mg/l	37.4	117
Chlorophyll A		mg/m3	9.3	11
Chromium	Note 3	mg/l	≤0.001	≤0.001
Cobalt		mg/l	≤0.001	≤0.001
Copper	Note 4	mg/l	≤0.005	≤0.005
Fecal coliforms	800	cfu/100ml	1050	5000
Iron	1	mg/l	0.374	7.06
Lead	Note 5	mg/l	≤0.005	≤0.005
Magnesium		mg/l	12.3	8.91
Mercury	0.012	ug/l	≤0.0001	≤0.0001
Nickel	Note 6	mg/l	0.002	0.002
Nitrate as N		mg/l	0.024	≤0.006
Selenium	0.005	mg/l	0.001	0.001
Silver	0.00007	mg/l	≤0.002	≤0.002
Thallium	0.0063	mg/l	0.001	≤0.0004
Total Dissolved Solids (TDS)		mg/l	358	315
Total Hardness		mg/l	163	107
Total Kjeldahl Nitrogen (TKN)		mg/l	0.833	1.85
Total Nitrogen		mg/l	0.879	1.85
Total Organic Carbon (TOC)		mg/l	15.4	18.3
Total Phosphate		mg/l	0.199	0.252
Total Suspended Solids (TSS)		mg/l	4.2	88
Unionized ammonia	0.02	mg/l	0.0005	0.0001
Vanadium		mg/l	0.003	0.001
Zinc	Note 7	mg/l	0.01	0.012
Organics				
1,1,1,2-Tetrachloroethane		ug/l	<0.63	<0.63
1,1,1-Trichloroethane		ug/l	<0.46	<0.46
1,1,2,2-Tetrachloroethane	10.8	ug/l	<0.14	<0.14

Analyte	Location:		SW-1	SW-2
	Sample Identifier:		SW-1	SW-2
	Date of Test:		02/27/06	02/27/06
	Standard(I)	Units		
1,1,2-Trichloroethane		ug/l	<0.47	<0.47
1,1-Dichloroethane		ug/l	<0.52	<0.52
1,1-Dichloroethene		ug/l	<0.45	<0.45
1,2,3-Trichloropropane		ug/l	<0.15	<0.15
1,2-Dichlorobenzene		ug/l	<0.44	<0.44
1,2-Dichloroethane		ug/l	<0.57	<0.57
1,2-Dichloropropane		ug/l	<0.52	<0.52
1,4-Dichlorobenzene		ug/l	<0.52	<0.52
2-Butanone		ug/l	<8.4	<8.4
2-Hexanone		ug/l	<4.4	<4.4
4-Methyl-2-pentanone		ug/l	<2.8	<2.8
Acetone		ug/l	<9.9	<9.9
Acrylonitrile		ug/l	<1.2	<1.2
Benzene		ug/l	<0.27	<0.27
Bromochloromethane		ug/l	<0.58	<0.58
Bromodichloromethane		ug/l	<0.35	<0.35
Bromomethane		ug/l	<0.66	<0.66
Carbon disulfide		ug/l	<0.85	<0.85
Carbon tetrachloride	4.42	ug/l	<0.42	<0.42
Chlorobenzene		ug/l	<0.63	<0.63
Chloroethane		ug/l	<0.80	<0.80
Chloromethane		ug/l	<0.64	<0.64
cis-1,2-Dichloroethene	3.2	ug/l	<0.65	<0.65
cis-1,3-Dichloropropene		ug/l	<0.14	<0.14
Dibromochloromethane		ug/l	<0.34	<0.34
Dibromochloropropane		ug/l	<0.74	<0.74
Dibromomethane		ug/l	<0.41	<0.41
Dichloromethane	1580	ug/l	<4.0	<4.0
Ethylbenzene		ug/l	<0.44	<0.44
Ethylene dibromide		ug/l	<0.50	<0.50
Iodomethane		ug/l	<0.67	<0.67
Styrene		ug/l	<0.98	<0.98
t-1,4-Dichloro-2-butene		ug/l	<2.5	<2.5
Tetrachloroethene		ug/l	<0.34	<0.34
Toluene		ug/l	<0.51	<0.51
Total xylenes		ug/l	<0.30	<0.30
trans-1,2-Dichloroethene		ug/l	<0.44	<0.44
trans-1,3-Dichloropropene		ug/l	<0.14	<0.14
Tribromomethane		ug/l	<0.58	<0.58
Trichloroethene	80.7	ug/l	<0.28	<0.28
Trichlorofluoromethane		ug/l	<0.98	<0.98
Trichloromethane		ug/l	<0.90	<0.90
Vinyl acetate		ug/l	<1.5	<1.5
Vinyl chloride		ug/l	<0.50	<0.50

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units

Note (1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

Note (3) Cr less than or equal to $e(0.819(\ln H)+0.6848)$

Note (4) Cu less than or equal to $e(0.845(\ln H)-1.702)$

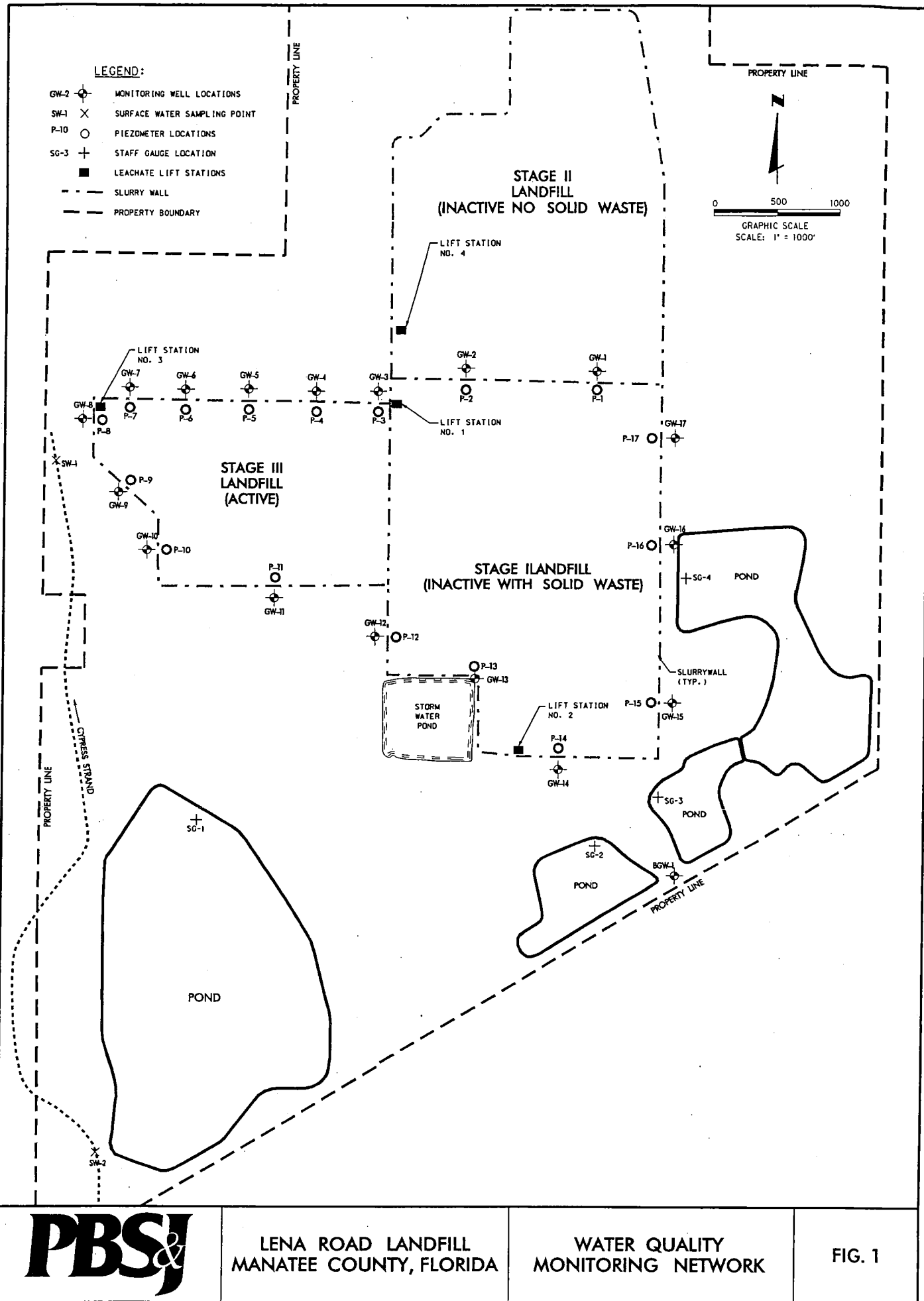
Note (5) Pb less than or equal to $e(1.273(\ln H)-4.705)$

Note (6) Ni less than or equal to $e(0.846(\ln H)+0.0584)$

Note (7) Zn less than or equal to $e(0.8473(\ln H)+0.884)$

FIGURES

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LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

WATER QUALITY
MONITORING NETWORK

FIG. 1

ATTACHMENT C

Laboratory Analytical Reports

Attachment C-3

Surface Water Analytical Report



REPORT OF ANALYSIS
MANATEE COUNTY UTILITY OPERATIONS
CENTRAL WASTEWATER LABORATORY
5101 65 TH STREET WEST
BRADENTON, FL 34210

Phone: (941) 792-8811 ext. 5285

Fax: (941) 795-3452

FDOHLAB ID: E54560

USEPA LAB CODE: FL00031

Laboratory Contact: Jeff Goodwin

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

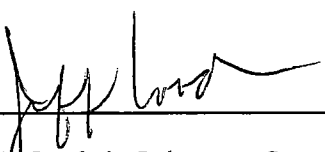
SAMPLE RECEIPT DATE: 02/27/2006

REPORT DATE: 4/18/2006

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

Data Release Authorization:

The Methods of analysis in this report are in accordance with MCUOD Central Wastewater 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, Laboratory Supervisor



Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Sample ID	AE09959	Collection Date / Time	02/27/2006 11:15					
Sample Point	Lena Road Surface Water 1							
Nitrate as N by Ion Chromatography	EPA 300.0	<MDL	mg/L	U	02/28/2006 10:34	0.006	0.025	IR
Nitrate as N by Ion Chromatography	EPA 300.0	0.024	mg/L	I	02/28/2006 10:34	0.006	0.025	IR
Carbonaceous BOD (5 day)	SM 5210 B	<MDL	mg/L	U	03/06/2006 08:20	2.00		LK/EMM
Chemical Oxygen Demand	EPA 410.4	37.4	mg/L		03/09/2006 08:30	3.00		IR
Total Organic Carbon	EPA 415.1	15.4	mg/L		03/07/2006 12:25	0.100	0.500	EMM
Field pH	FIELD	7.5	Std. units	C	02/27/2006 11:15	0.010		LRW
Field Temperature	FIELD	16.5	Degrees C	C	02/27/2006 11:15			LRW
Metals by 200.7								
Beryllium	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.0002	0.0006	WWC
Cadmium	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.002	0.006	WWC
Copper	EPA 200.7	0.002	mg/L	I	03/15/2006 11:36	0.001	0.003	WWC
Magnesium	EPA 200.7	12.3	mg/L		03/15/2006 11:36	0.005	0.015	WWC
Lead	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.005	0.015	WWC
Iron	EPA 200.7	0.374	mg/L		03/15/2006 11:36	0.010	0.030	WWC
Copper	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.005	0.015	WWC
Cobalt	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.001	0.003	WWC
Chromium	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.001	0.003	WWC
Vanadium	EPA 200.7	0.003	mg/L		03/15/2006 11:36	0.0005	0.002	WWC
Cadmium	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.0005	0.002	WWC
Zinc	EPA 200.7	0.010	mg/L	I	03/15/2006 11:36	0.010	0.030	WWC
Barium	EPA 200.7	0.012	mg/L		03/15/2006 11:36	0.0005	0.002	WWC
Aluminum	EPA 200.7	< MDL	mg/L	U	03/15/2006 11:36	0.007	0.021	WWC
Calcium	EPA 200.7	45.0	mg/L		03/15/2006 11:36	0.010	0.030	WWC
Total Hardness	SM 2340 B	163	mg/L		04/14/2006 16:16			JAG
Mercury Cold Vapor	EPA 245.1	< MDL	ug/L	U	03/21/2006 11:20	0.100	0.300	WWC
Antimony by GFAAS	EPA 204.2	< MDL	mg/L	U	03/10/2006 11:41	0.0015	0.006	WC
Selenium by GFAAS	EPA 270.2	0.001	mg/L	I	04/07/2006 14:50	0.0002	0.001	WWC
Thallium by GFAAS	EPA 279.2	0.001	mg/L	I	03/14/2006 11:03	0.0004	0.002	WWC
Fecal Coliforms	SM 9222D	1050	cfu/100 ml	B	03/02/2006 08:40	1		IR /LK
Ammonia	EPA 350.1	0.047	mg/L	I	02/28/2006 10:07	0.011	0.054	EMM

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Total Kjeldahl Nitrogen	EPA 351.2	0.855	mg/L		03/01/2006	13:45	0.075	0.225	EMM
Total Nitrogen	EPA 351.2/300.0	0.879	mg/L		03/03/2006	09:19			JAG
Total Phosphate as P	EPA 365.1	0.199	mg/L		03/08/2006	14:42	0.005	0.015	REED
Unionized Ammonia	DEP SOP 10/3/83	0.0005	mg/L		03/24/2006	10:01			ECC
Total Dissolved Solids	SM 2540 C	358	mg/L		03/02/2006	10:30	2.50	7.50	LK/ IR
Total Suspended Solids	SM 2540 D	4.20	mg/L		02/28/2006	15:40	5.00	7.50	LK
Sample ID AE09960 Collection Date / Time 02/27/2006 10:35									
Sample Point Lena Road Surface Water 2									
Nitrite as N by Ion Chromatography	EPA 300.0	<MDL	mg/L	U	02/28/2006	10:47	0.006	0.025	IR
Nitrate as N by Ion Chromatography	EPA 300.0	<MDL	mg/L	U	02/28/2006	10:47	0.006	0.025	IR
Carbonaceous BOD (5 day)	SM 5210 B	2.03	mg/L		03/06/2006	08:20	2.00		LK/EMM
Chemical Oxygen Demand	EPA 410.4	117	mg/L		03/09/2006	08:30	3.00		IR
Total Organic Carbon	EPA 415.1	18.3	mg/L		03/07/2006	12:52	0.100	0.500	EMM
Field pH	FIELD	6.6	Std. units	C	02/27/2006	10:35	0.010		LRW
Field Temperature	FIELD	16.5	Degrees C	C	02/27/2006	10:35			LRW
Metals by 200.7									
Beryllium	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.0002	0.0006	WWC
Copper	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.005	0.015	WWC
Magnesium	EPA 200.7	8.91	mg/L		03/15/2006	11:42	0.005	0.015	WWC
Manganese	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.005	0.015	WWC
Nickel	EPA 200.7	0.002	mg/L	I	03/15/2006	11:42	0.001	0.003	WWC
Silver	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.002	0.006	WWC
Vanadium	EPA 200.7	0.001	mg/L	I	03/15/2006	11:42	0.0005	0.002	WWC
Iron	EPA 200.7	7.06	mg/L		03/15/2006	11:42	0.010	0.030	WWC
Zinc	EPA 200.7	0.012	mg/L	I	03/15/2006	11:42	0.010	0.030	WWC
Chromium	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.001	0.003	WWC
Cadmium	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.0005	0.002	WWC
Mercury	EPA 200.7	0.016	mg/L		03/15/2006	11:42	0.0005	0.002	WWC
Arsenic	EPA 200.7	0.027	mg/L		03/15/2006	11:42	0.007	0.021	WWC
Calcium	EPA 200.7	28.0	mg/L		03/15/2006	11:42	0.010	0.030	WWC
Cobalt	EPA 200.7	< MDL	mg/L	U	03/15/2006	11:42	0.001	0.003	WWC
Total Hardness	SM 2340 B	107	mg/L		04/14/2006	16:16			JAG

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Mercury Cold Vapor	EPA 245.1	< MDL	ug/L	U	03/21/2006	11:22	0.100	0.300	WWC
Antimony by GFAAS	EPA 204.2	< MDL	mg/L	U	03/10/2006	11:49	0.0015	0.006	WC
Selenium by GFAAS	EPA 270.2	0.001	mg/L	I	04/07/2006	14:58	0.0002	0.001	WWC
Thallium by GFAAS	EPA 279.2	< MDL	mg/L	U	03/14/2006	11:11	0.0004	0.002	WWC
Fecal Coliforms	SM 9222D	5000	cfu/100 ml		03/02/2006	08:40	1		IR /LK
Ammonia	EPA 350.1	0.067	mg/L		02/28/2006	10:09	0.011	0.054	EMM
Total Kjeldahl Nitrogen	EPA 351.2	1.85	mg/L		03/01/2006	13:43	0.075	0.225	EMM
Total Nitrogen	EPA 351.2/300.0	1.85	mg/L		03/03/2006	09:44			JAG
Total Phosphate as P	EPA 365.1	0.252	mg/L		03/08/2006	14:42	0.005	0.015	REED
Unionized Ammonia	DEP SOP 10/3/83	0.0001	mg/L		03/24/2006	09:59			ECC
Total Dissolved Solids	SM 2540 C	315	mg/L		03/02/2006	10:30	2.50	7.50	LK/ IR
Total Suspended Solids	SM 2540 D	88.0	mg/L		02/28/2006	15:40	2.50	7.50	LK

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name SICPWATER-6021		QA Sample ID AE09956							
Samples AE09959 AE09960									
Method Blank for Metals by 200.7									
Vanadium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Zinc		< MDL	mg/L	U	03/15/2006	10:18			WWC
Sodium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Silver		< MDL	mg/L	U	03/15/2006	10:18			WWC
Nickel		< MDL	mg/L	U	03/15/2006	10:18			WWC
Magnesium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Lead		< MDL	mg/L	U	03/15/2006	10:18			WWC
Iron		< MDL	mg/L	U	03/15/2006	10:18			WWC
Arsenic		< MDL	mg/L	U	03/15/2006	10:18			WWC
Cobalt		< MDL	mg/L	U	03/15/2006	10:18			WWC
Cadmium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Calcium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Chromium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Beryllium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Barium		< MDL	mg/L	U	03/15/2006	10:18			WWC
Copper		< MDL	mg/L	U	03/15/2006	10:18			WWC
Continuing Cal. Blank for Metals by 200.									
Cobalt		< MDL	mg/L	U	03/15/2006	12:26			WWC
Chromium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Calcium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Cadmium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Copper		< MDL	mg/L	U	03/15/2006	12:26			WWC
Barium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Sodium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Beryllium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Iron		< MDL	mg/L	U	03/15/2006	12:26			WWC
Lead		< MDL	mg/L	U	03/15/2006	12:26			WWC
Magnesium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Zinc		< MDL	mg/L	U	03/15/2006	12:26			WWC
Silver		< MDL	mg/L	U	03/15/2006	12:26			WWC
Vanadium		< MDL	mg/L	U	03/15/2006	12:26			WWC
Arsenic		< MDL	mg/L	U	03/15/2006	12:26			WWC
Nickel		< MDL	mg/L	U	03/15/2006	12:26			WWC
Continuous Calibration for Metals by 200									
Sodium		93.1	mg/L		03/15/2006	12:17			WWC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-6021		QA Sample ID	AE09956				
Samples	AE09959 AE09960							
Continuous Calibration for Metals by 200								
Barium		0.953	mg/L		03/15/2006 12:17			WWC
Zinc		1.94	mg/L		03/15/2006 12:17			WWC
Arsenic		1.87	mg/L		03/15/2006 12:17			WWC
Beryllium		0.490	mg/L		03/15/2006 12:17			WWC
Cadmium		1.99	mg/L		03/15/2006 12:17			WWC
Calcium		48.5	mg/L		03/15/2006 12:17			WWC
Chromium		1.96	mg/L		03/15/2006 12:17			WWC
Cobalt		1.98	mg/L		03/15/2006 12:17			WWC
Iron		9.92	mg/L		03/15/2006 12:17			WWC
Lead		1.99	mg/L		03/15/2006 12:17			WWC
Magnesium		47.7	mg/L		03/15/2006 12:17			WWC
Nickel		2.00	mg/L		03/15/2006 12:17			WWC
Silver		0.492	mg/L		03/15/2006 12:17			WWC
Vanadium		1.96	mg/L		03/15/2006 12:17			WWC
Copper		1.96	mg/L		03/15/2006 12:17			WWC
Cont Calb Rec for Metals by 200.7								
Beryllium		98.0	%		03/17/2006 11:16			WWC
Vanadium		98.0	%		03/17/2006 11:16			WWC
Sodium		93.1	%		03/17/2006 11:16			WWC
Nickel		100	%		03/17/2006 11:16			WWC
Lead		99.5	%		03/17/2006 11:16			WWC
Iron		99.2	%		03/17/2006 11:16			WWC
Copper		98.0	%		03/17/2006 11:16			WWC
Cobalt		99.0	%		03/17/2006 11:16			WWC
Chromium		98.0	%		03/17/2006 11:16			WWC
Arsenic		93.5	%		03/17/2006 11:16			WWC
Cadmium		99.5	%		03/17/2006 11:16			WWC
Barium		95.3	%		03/17/2006 11:16			WWC
Silver		98.4	%		03/17/2006 11:16			WWC
Zinc		97.0	%		03/17/2006 11:16			WWC
Calcium		97.0	%		03/17/2006 11:16			WWC
Magnesium		95.4	%		03/17/2006 11:16			WWC
Sample Dup for Metals by 200.7								
Cobalt		0.015	mg/L		03/15/2006 10:43			WWC
Zinc		0.024	mg/L	I	03/15/2006 10:43			WWC
Sodium		371	mg/L		03/15/2006 10:43			WWC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-6021	QA Sample ID	AE09956					
Samples	AE09959 AE09960							
Sample Dup for Metals by 200.7								
Nickel		0.014	mg/L		03/15/2006 10:43		WWC	
Magnesium		68.3	mg/L		03/15/2006 10:43		WWC	
Lead		< MDL	mg/L	U	03/15/2006 10:43		WWC	
Copper		0.007	mg/L	I	03/15/2006 10:43		WWC	
Vanadium		0.029	mg/L		03/15/2006 10:43		WWC	
Chromium		0.007	mg/L		03/15/2006 10:43		WWC	
Calcium		164	mg/L		03/15/2006 10:43		WWC	
Cadmium		< MDL	mg/L	U	03/15/2006 10:43		WWC	
Beryllium		< MDL	mg/L	U	03/15/2006 10:43		WWC	
Barium		0.113	mg/L		03/15/2006 10:43		WWC	
Arsenic		0.010	mg/L	I	03/15/2006 10:43		WWC	
Iron		15.7	mg/L		03/15/2006 10:43		WWC	
Silver		< MDL	mg/L	U	03/15/2006 10:43		WWC	
Initial Calibration for Metals by 200.7								
Cobalt		0.996	mg/L		03/15/2006 10:24		WWC	
Arsenic		0.985	mg/L		03/15/2006 10:24		WWC	
Barium		0.489	mg/L		03/15/2006 10:24		WWC	
Beryllium		0.251	mg/L		03/15/2006 10:24		WWC	
Cadmium		0.993	mg/L		03/15/2006 10:24		WWC	
Chromium		0.997	mg/L		03/15/2006 10:24		WWC	
Zinc		1.00	mg/L		03/15/2006 10:24		WWC	
Copper		1.00	mg/L		03/15/2006 10:24		WWC	
Sodium		48.8	mg/L		03/15/2006 10:24		WWC	
Calcium		25.1	mg/L		03/15/2006 10:24		WWC	
Vanadium		1.00	mg/L		03/15/2006 10:24		WWC	
Iron		5.14	mg/L		03/15/2006 10:24		WWC	
Silver		0.250	mg/L		03/15/2006 10:24		WWC	
Nickel		1.00	mg/L		03/15/2006 10:24		WWC	
Magnesium		24.4	mg/L		03/15/2006 10:24		WWC	
Lead		1.02	mg/L		03/15/2006 10:24		WWC	
Int Calb Rec for Metals by 200.7								
Copper		100	%		03/17/2006 11:16		WWC	
Sodium		97.6	%		03/17/2006 11:16		WWC	
Silver		100	%		03/17/2006 11:16		WWC	
Nickel		100	%		03/17/2006 11:16		WWC	
Magnesium		97.6	%		03/17/2006 11:16		WWC	

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-6021		QA Sample ID	AE09956				
Samples	AE09959 AE09960							
Int Calb Rec for Metals by 200.7								
Lead		102	%		03/17/2006 11:16			WWC
Iron		103	%		03/17/2006 11:16			WWC
Vanadium		100	%		03/17/2006 11:16			WWC
Cobalt		99.6	%		03/17/2006 11:16			WWC
Arsenic		98.5	%		03/17/2006 11:16			WWC
Zinc		100	%		03/17/2006 11:16			WWC
Strontium		97.8	%		03/17/2006 11:16			WWC
Beryllium		100	%		03/17/2006 11:16			WWC
Cadmium		99.3	%		03/17/2006 11:16			WWC
Calcium		100	%		03/17/2006 11:16			WWC
Chromium		99.7	%		03/17/2006 11:16			WWC
Metals by 200.7								
Chromium		0.007	mg/L		03/15/2006 10:37			WWC
Iron		15.0	mg/L		03/15/2006 10:37			WWC
Barium		0.109	mg/L		03/15/2006 10:37			WWC
Beryllium		< MDL	mg/L	U	03/15/2006 10:37			WWC
Calcium		156	mg/L		03/15/2006 10:37			WWC
Cobalt		0.014	mg/L		03/15/2006 10:37			WWC
Copper		0.008	mg/L	I	03/15/2006 10:37			WWC
Arsenic		0.011	mg/L	I	03/15/2006 10:37			WWC
Vanadium		0.028	mg/L		03/15/2006 10:37			WWC
Magnesium		65.3	mg/L		03/15/2006 10:37			WWC
Nickel		0.015	mg/L		03/15/2006 10:37			WWC
Silver		< MDL	mg/L	U	03/15/2006 10:37			WWC
Cadmium		< MDL	mg/L	U	03/15/2006 10:37			WWC
Sodium		356	mg/L		03/15/2006 10:37			WWC
Lead		< MDL	mg/L	U	03/15/2006 10:37			WWC
Zinc		0.025	mg/L	I	03/15/2006 10:37			WWC
LCS Result for Metals by 200.7								
Zinc		0.988	mg/L		03/15/2006 10:31			WWC
Chromium		0.974	mg/L		03/15/2006 10:31			WWC
Vanadium		0.984	mg/L		03/15/2006 10:31			WWC
Cadmium		0.993	mg/L		03/15/2006 10:31			WWC
Lead		0.985	mg/L		03/15/2006 10:31			WWC
Beryllium		0.248	mg/L		03/15/2006 10:31			WWC
Arsenic		0.979	mg/L		03/15/2006 10:31			WWC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-6021	QA Sample ID	AE09956					
Samples	AE09959 AE09960							
LCS Result for Metals by 200.7								
Calcium		24.5	mg/L		03/15/2006 10:31			WWC
Sodium		47.6	mg/L		03/15/2006 10:31			WWC
Silver		0.246	mg/L		03/15/2006 10:31			WWC
Nickel		0.965	mg/L		03/15/2006 10:31			WWC
Copper		0.985	mg/L		03/15/2006 10:31			WWC
Cobalt		0.966	mg/L		03/15/2006 10:31			WWC
Iron		4.94	mg/L		03/15/2006 10:31			WWC
Barium		0.486	mg/L		03/15/2006 10:31			WWC
Magnesium		23.6	mg/L		03/15/2006 10:31			WWC
LCS Recovery for Metals by 200.7								
Barium		97.2	%		03/17/2006 11:16			WWC
Zinc		98.8	%		03/17/2006 11:16			WWC
Vanadium		98.4	%		03/17/2006 11:16			WWC
Sodium		95.2	%		03/17/2006 11:16			WWC
Silver		98.4	%		03/17/2006 11:16			WWC
Nickel		96.5	%		03/17/2006 11:16			WWC
Magnesium		94.4	%		03/17/2006 11:16			WWC
Lead		98.5	%		03/17/2006 11:16			WWC
Iron		98.8	%		03/17/2006 11:16			WWC
Copper		98.5	%		03/17/2006 11:16			WWC
Cobalt		96.6	%		03/17/2006 11:16			WWC
Cadmium		99.3	%		03/17/2006 11:16			WWC
Artenic		97.9	%		03/17/2006 11:16			WWC
Calcium		98.0	%		03/17/2006 11:16			WWC
Chromium		97.4	%		03/17/2006 11:16			WWC
Beryllium		99.2	%		03/17/2006 11:16			WWC
Samp Dup Precision for Metals by 200.7								
Lead		0.00	%		03/15/2006 10:37			WWC
Cadmium		0.00	%		03/15/2006 10:37			WWC
Calcium		5.00	%		03/15/2006 10:37			WWC
Chromium		0.00	%		03/15/2006 10:37			WWC
Cobalt		6.90	%		03/15/2006 10:37			WWC
Beryllium		3.60	%		03/15/2006 10:37			WWC
Iron		4.56	%		03/15/2006 10:37			WWC
Artenic		9.52	%		03/15/2006 10:37			WWC
Magnesium		4.49	%		03/15/2006 10:37			WWC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-6021	QA Sample ID	AE09956					
Samples	AE09959 AE09960							
Camp Dup Precision for Metals by 200.7								
Nickel		6.90	%		03/15/2006 10:37			WWC
Silver		0.00	%		03/15/2006 10:37			WWC
Sodium		4.13	%		03/15/2006 10:37			WWC
Vanadium		3.51	%		03/15/2006 10:37			WWC
Zinc		4.08	%		03/15/2006 10:37			WWC
Copper		13.3	%		03/15/2006 10:37			WWC
Beryllium		0.00	%		03/15/2006 10:37			WWC
MS Recovery for Metals by 200.7								
Lead		106	%		03/17/2006 11:16			WWC
Barium		97.6	%		03/17/2006 11:16			WWC
Beryllium		96.0	%		03/17/2006 11:16			WWC
Cadmium		94.8	%		03/17/2006 11:16			WWC
Calcium		108	%		03/17/2006 11:16			WWC
Chromium		95.3	%		03/17/2006 11:16			WWC
Arsenic		96.9	%		03/17/2006 11:16			WWC
Copper		100	%		03/17/2006 11:16			WWC
Silver		100	%		03/17/2006 11:16			WWC
Lead		96.2	%		03/17/2006 11:16			WWC
Magnesium		95.6	%		03/17/2006 11:16			WWC
Nickel		93.3	%		03/17/2006 11:16			WWC
Sodium		102	%		03/17/2006 11:16			WWC
Zinc		93.2	%		03/17/2006 11:16			WWC
Cobalt		92.8	%		03/17/2006 11:16			WWC
Vanadium		97.0	%		03/17/2006 11:16			WWC
MS Result for Metals by 200.7								
Magnesium		89.2	mg/L		03/15/2006 11:00			WWC
Zinc		0.957	mg/L		03/15/2006 11:00			WWC
Vanadium		0.998	mg/L		03/15/2006 11:00			WWC
Sodium		407	mg/L		03/15/2006 11:00			WWC
Nickel		0.948	mg/L		03/15/2006 11:00			WWC
Calcium		183	mg/L		03/15/2006 11:00			WWC
Lead		0.962	mg/L		03/15/2006 11:00			WWC
Iron		20.3	mg/L		03/15/2006 11:00			WWC
Copper		1.01	mg/L		03/15/2006 11:00			WWC
Cobalt		0.942	mg/L		03/15/2006 11:00			WWC
Chromium		0.960	mg/L		03/15/2006 11:00			WWC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name	SICPWATER-6021	QA Sample ID	AE09956					
Samples	AE09959 AE09960							
MS Result for Metals by 200.7								
Beryllium		0.240	mg/L		03/15/2006 11:00			WWC
Barium		0.597	mg/L		03/15/2006 11:00			WWC
Arsenic		0.980	mg/L		03/15/2006 11:00			WWC
Silver		0.250	mg/L		03/15/2006 11:00			WWC
Cadmium		0.948	mg/L		03/15/2006 11:00			WWC
MSD Result for Metals by 200.7								
Arsenic		0.971	mg/L		03/15/2006 11:06			WWC
Cadmium		0.948	mg/L		03/15/2006 11:06			WWC
Barium		20.7	mg/L		03/15/2006 11:06			WWC
Barium		0.597	mg/L		03/15/2006 11:06			WWC
Lead		0.957	mg/L		03/15/2006 11:06			WWC
Barium		187	mg/L		03/15/2006 11:06			WWC
Vanadium		0.996	mg/L		03/15/2006 11:06			WWC
Magnesium		89.9	mg/L		03/15/2006 11:06			WWC
Nickel		0.947	mg/L		03/15/2006 11:06			WWC
Beryllium		0.240	mg/L		03/15/2006 11:06			WWC
Silver		0.248	mg/L		03/15/2006 11:06			WWC
Zinc		0.958	mg/L		03/15/2006 11:06			WWC
Cobalt		0.941	mg/L		03/15/2006 11:06			WWC
Sodium		416	mg/L		03/15/2006 11:06			WWC
Chromium		0.958	mg/L		03/15/2006 11:06			WWC
Copper		1.01	mg/L		03/15/2006 11:06			WWC
MS/MSD Precision for Metals by 200.7								
Cobalt		0.106	%		03/15/2006 11:00			WWC
Chromium		0.208	%		03/15/2006 11:00			WWC
Barium		2.16	%		03/15/2006 11:00			WWC
Cadmium		0.00	%		03/15/2006 11:00			WWC
Nickel		0.106	%		03/15/2006 11:00			WWC
Beryllium		0.00	%		03/15/2006 11:00			WWC
Zinc		0.104	%		03/15/2006 11:00			WWC
Copper		0.00	%		03/15/2006 11:00			WWC
Vanadium		0.201	%		03/15/2006 11:00			WWC
Sodium		2.19	%		03/15/2006 11:00			WWC
Arsenic		0.923	%		03/15/2006 11:00			WWC
Beryllium		0.00	%		03/15/2006 11:00			WWC
Iron		1.95	%		03/15/2006 11:00			WWC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name SICPWATER-6021		QA Sample ID AE09956						
Samples AE09959 AE09960								
S/MSD Precision for Metals by 200.7								
Silver		0.803	%		03/15/2006 11:00			WWC
Magnesium		0.782	%		03/15/2006 11:00			WWC
Lead		0.521	%		03/15/2006 11:00			WWC
Batch Name AMM-5900		QA Sample ID AE09959						
Samples AE09959 AE09960								
Ammonia		0.047	mg/L	I	02/28/2006 10:07			EMM
Continuing Cal. Blank for Ammonia		<MDL	mg/L	U	02/28/2006 10:20			EMM
Continuous Calibration for Ammonia		2.98	mg/L		02/28/2006 10:19			EMM
Cont Calb Rec for Ammonia		99.3	%		02/28/2006 10:19			EMM
Sample Dup for Ammonia		0.047	mg/L	I	02/28/2006 10:08			EMM
Sample Dup Precision for Ammonia		0.00	%		02/28/2006 10:07			EMM
Batch Name AMM-5900A		QA Sample ID AE09960						
Samples AE09959 AE09960								
Amt Spiked for Ammonia		0.500	mg/L		02/28/2006 10:10			EMM
Ammonia		0.067	mg/L		02/28/2006 10:09			EMM
MS Recovery for Ammonia		93.2	%		02/28/2006 10:09			EMM
MS Result for Ammonia		0.533	mg/L		02/28/2006 10:10			EMM
Batch Name CBOD-5924		QA Sample ID AE09987						
Samples AE09959 AE09960								
Method Blank for Carbonaceous BOD (5 day)		0.19	mg/L		03/06/2006 08:20			LK/EMM
Carbonaceous BOD (5 day)		245	mg/L		03/06/2006 08:20			LK/EMM
Sample Dup for CBOD		240	mg/L		03/06/2006 08:20			LK/EMM
Initial Calibration for CBOD		174	mg/L		03/06/2006 08:20			LK/EMM
Int Calb Rec for CBOD		87.9	%		03/06/2006 08:20			LK/EMM
Sample Dup Precision for CBOD		2.06	%		03/06/2006 08:20			LK/EMM
Batch Name COD-6011		QA Sample ID AE09959						
Samples AE09959 AE09960								
Amt Spiked for COD		50.0	mg/L		03/09/2006 08:30			IR
Method Blank for COD		<MDL	mg/L	U	03/09/2006 08:30			IR
Continuing Cal. Blank for COD		<MDL	mg/L	U	03/09/2006 08:30			IR
Cont. Calib. for COD		900	mg/L		03/09/2006 08:30			IR
Cont Calb Conc for COD		900	mg/L		03/09/2006 08:30			IR
Cont Calb Rec for COD		100	%		03/09/2006 08:30			IR
Chemical Oxygen Demand		37.4	mg/L		03/09/2006 08:30			IR
Sample Dup for COD		37.4	mg/L		03/09/2006 08:30			IR

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name COD-6011		QA Sample ID AE09959						
Samples AE09959 AE09960								
Initial Calibration for COD		354	mg/L		03/09/2006 08:30			IR
Int Calb Conc for COD		343	mg/L		03/09/2006 08:30			IR
Calb Rec for COD		103	%		03/09/2006 08:30			IR
Samp Dup Precision for COD		0.00	%		03/09/2006 08:30			IR
MS Recovery for COD		97.8	%		03/09/2006 08:30			IR
MS Result for COD		86.3	mg/L		03/09/2006 08:30			IR
Batch Name FC-5897		QA Sample ID AE09959						
Samples AE09959 AE09960								
Method Blank for Fecal Coliforms		<MDL	cfu/100 ml	U	02/28/2006 13:40			IR
Cont. Cal. Blank for Fecal Coliforms		<MDL	cfu/100 ml	U	02/28/2006 13:40			IR
Sample Dup for Fecal Coliforms		1100	cfu/100 ml	B	03/02/2006 08:40			IR /LK
Fecal Coliforms		1050	cfu/100 ml	B	03/02/2006 08:40			IR /LK
Samp Dup Precision for Fecal Coliforms		Pass	%		03/02/2006 09:05			LSK
Batch Name HG-6113		QA Sample ID AE09996						
Samples AE09959 AE09960								
Method Blank for Mercury Cold Vapor		< MDL	ug/L	U	03/21/2006 11:00			WWC
Continuing Cal. Blank for Mercury Cold V		< MDL	ug/L	U	03/21/2006 11:37			WWC
Continuous Calibration for Mercury Cold		5.04	ug/L		03/21/2006 11:35			WWC
Cont Calb Rec for Mercury Cold Vapor		101	%		03/21/2006 11:35			WWC
Sample Dup for Mercury Cold Vapor		< MDL	ug/L	U	03/21/2006 11:05			WWC
Mercury Cold Vapor		< MDL	ug/L	U	03/21/2006 11:03			WWC
Initial Calibration for Mercury Cold Vap		2.61	ug/L		03/21/2006 10:58			WWC
Int Calb Rec for Mercury Cold Vapor		104	%		03/21/2006 10:58			WWC
Samp Dup Precision for Mercury Cold Vapo		Passed	%		03/21/2006 11:05			WWC
MS Recovery for Mercury Cold Vapor		102	%		03/21/2006 11:03			WWC
MS Result for Mercury Cold Vapor		1.02	ug/L		03/21/2006 11:08			WWC
MSD Result for Mercury Cold Vapor		1.02	ug/L		03/21/2006 11:10			WWC
MS/MSD Precision for Mercury Cold Vapor		0.00	%		03/21/2006 11:08			WWC
Batch Name NO2IC-5905		QA Sample ID AE09943						
Samples AE09959 AE09960								
Method Blank for Nitrite		<MDL	mg/L	U	02/28/2006 08:04			IR
Cont. Blank for Nitrite		<MDL	mg/L	U	02/28/2006 11:24			IR
Cont. Cal. for Nitrite		5.11	mg/L		02/28/2006 11:12			IR
Cont Calb Rec for Nitrite		102	%		02/28/2006 11:12			IR
Sample Dup for Nitrite		<MDL	mg/L	U	02/28/2006 08:54			IR
Initial Cal. Std. for NO2IC		1.04	mg/L		02/28/2006 08:29			IR

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name NO2IC-5905		QA Sample ID AE09943						
Samples AE09959 AE09960								
Cal. Conc. for NO2IC		1.00	mg/L		02/28/2006 08:29			IR
Init. Cal. Rec. for NO2IC		104	%		02/28/2006 08:29			IR
Nitrite as N by Ion Chromatography		<MDL	mg/L	U	02/28/2006 08:42			IR
Samp Dup Prec. for Nitrite		ACCEPTABLE	%		02/28/2006 08:54			IR
Recovery for Nitrite		109	%		02/28/2006 09:07			IR
MS Result for Nitrite		1.09	mg/L		02/28/2006 09:07			IR
Batch Name NO3IC-5906		QA Sample ID AE09943						
Samples AE09959 AE09960								
Method Blank for Nitrate		<MDL	mg/L	U	02/28/2006 08:04			IR
Cont. Blank for Nitrate		<MDL	mg/L	U	02/28/2006 11:24			IR
Cont. Cal. for Nitrate		10.0	mg/L		02/28/2006 11:12			IR
Cont Calb Rec for Nitrate		100	%		02/28/2006 11:12			IR
Sample Dup for Nitrate		4.79	mg/L		02/28/2006 08:54			IR
Cal. for Nitrate		23.0	mg/L		02/28/2006 08:17			IR
Int Calb Conc for Nitrate		22.8	mg/L		02/28/2006 08:17			IR
Int Calb Rec for Nitrate		101	%		02/28/2006 08:17			IR
Nitrate as N by Ion Chromatography		4.79	mg/L		02/28/2006 08:42			IR
Samp Dup Prec. for Nitrate		0.00	%		02/28/2006 08:54			IR
Recovery for Nitrate		104	%		02/28/2006 09:07			IR
MS Result for Nitrate		5.83	mg/L		02/28/2006 09:07			IR
Batch Name SBAA-5933		QA Sample ID AE09996						
Samples AE09959 AE09960								
Method Blank for Antimony by GFAAS		< MDL	mg/L	U	03/10/2006 10:31			WC
Continuing Cal. Blank for Antimony by GF		< MDL	mg/L	U	03/10/2006 12:36			WC
Continuous Calibration for Antimony by G		0.076	mg/L		03/10/2006 12:28			WC
Cont Calb Rec for Antimony by GFAAS		101	%		03/10/2006 12:28			WC
Sample Dup for Antimony by GFAAS		< MDL	mg/L	U	03/10/2006 10:55			WC
Initial Calibration for Antimony by GFAA		0.049	mg/L		03/10/2006 10:39			WC
Int Calb Rec for Antimony by GFAAS		98.0	%		03/10/2006 10:39			WC
Samp Dup Precision for Antimony by GFAAS		Passed	%		03/14/2006 11:02			WWC
MS Recovery for Antimony by GFAAS		93.0	%		03/10/2006 10:47			WC
MS Result for Antimony by GFAAS		0.048	mg/L		03/10/2006 11:02			WC
Antimony by GFAAS		0.0015	mg/L	I	03/10/2006 10:47			WC
MSD Result for Antimony by GFAAS		0.048	mg/L		03/10/2006 11:10			WC
MSD Precision for Antimony by GFAAS		0.00	mg/L		03/10/2006 11:02			WC

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed		MDL	PQL	Analyst
Batch Name SEAA-5947		QA Sample ID		AE09961					
Samples AE09959 AE09960									
Method Blank for Selenium		<MDL	mg/L	U	04/07/2006	13:40		WWC	
Cont. Cal. Blank for Selenium		<MDL	mg/L	U	04/07/2006	15:45		WWC	
Continuous Calibration for Selenium		0.103	mg/L		04/07/2006	15:37		WWC	
Cont Calb Rec for Selenium		103	%		04/07/2006	15:37		WWC	
Sample Dup for Selenium		0.0004	mg/L		04/07/2006	14:04		WWC	
Initial Calibration for Selenium		0.051	mg/L		04/07/2006	13:48		WWC	
Int Calb Rec for Selenium		102	%		04/07/2006	13:48		WWC	
Sample Dup Precision for Selenium		NO RESULT	%		04/07/2006	14:04		WWC	
MS Recovery for Selenium		100	%		04/07/2006	14:12		WWC	
MS Result for Selenium		0.051	mg/L		04/07/2006	14:12		WWC	
MSD Result for Selenium by GFAAS		0.050	mg/L		04/07/2006	14:19		WWC	
Selenium by GFAAS		0.001	mg/L	I	04/07/2006	13:56		WWC	
MS/MSD Precision for Selenium by GFAAS		1.98	%		04/07/2006	14:19		WWC	
Batch Name TDS-5919		QA Sample ID		AE09957					
Samples AE09959 AE09960									
Method Blank for TDS		<MDL	mg/L	U	03/02/2006	10:30		LK/ IR	
Sample Dup for TDS		693	mg/L		03/02/2006	10:30		LK/ IR	
Initial Calibration for TDS		288	mg/L		03/02/2006	10:30		LK/ IR	
Int Calb Conc for TDS		300	mg/L		03/02/2006	10:30		LK/ IR	
Int Calb Rec for TDS		96.0	%		03/02/2006	10:30		LK/ IR	
Sample Dup Precision for TDS		Pass	%		03/02/2006	10:57		IR	
Total Dissolved Solids		693	mg/L		03/02/2006	10:30		LK/ IR	
Batch Name TKN-5922		QA Sample ID		AE09987					
Samples AE09959 AE09960									
Method Blank for TKN		<MDL	mg/L	U	03/01/2006	13:27		EMM	
CCB for TKN		<MDL	mg/L	U	03/01/2006	13:49		EMM	
CCV for TKN		5.38	mg/L		03/01/2006	13:48		EMM	
CCV Recovery for TKN		108	%		03/01/2006	13:48		EMM	
Sample Dup for TKN		56.8	mg/L		03/01/2006	13:31		EMM	
ICV for TKN		2.02	mg/L		03/01/2006	13:29		EMM	
ICV Recovery for TKN		101	%		03/01/2006	13:29		EMM	
Dup Precision for TKN		1.24	%		03/01/2006	13:30		EMM	
Total Kjeldahl Nitrogen		56.1	mg/L		03/01/2006	13:30		EMM	
Batch Name TKN-5922A		QA Sample ID		AE09985					
Samples AE09959 AE09960									
Amt Spiked for TKN		2.00	mg/L		03/01/2006	13:34		EMM	

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name TKN-5922A		QA Sample ID AE09985						
Samples AE09959 AE09960								
S Recovery for TKN		106	%		03/01/2006 13:33		EMM	
MS Result for TKN		3.50	mg/L		03/01/2006 13:34		EMM	
Total Kjeldahl Nitrogen		1.38	mg/L		03/01/2006 13:33		EMM	
Batch Name TLAA-5930		QA Sample ID AE09996						
Samples AE09959 AE09960								
Method Blank for Thallium by GFAAS		< MDL	mg/L	U	03/14/2006 09:48		WWC	
Continuing Cal. Blank for Thallium by GF		< MDL	mg/L	U	03/14/2006 12:00		WWC	
Continuous Calibration for Thallium by G		0.107	mg/L		03/14/2006 11:52		WWC	
Cont Calb Rec for Thallium by GFAAS		107	%		03/14/2006 11:52		WWC	
Sample Dup for Thallium by GFAAS		< MDL	mg/L	U	03/14/2006 10:13		WWC	
Initial Calibration for Thallium by GFAA		0.051	mg/L		03/14/2006 09:56		WWC	
Calb Rec for Thallium by GFAAS		102	%		03/14/2006 09:56		WWC	
Samp Dup Precision for Thallium by GFAAS		Passed	%		03/16/2006 10:13		WWC	
S Recovery for Thallium by GFAAS		108	%		03/14/2006 10:21		WWC	
MS Result for Thallium by GFAAS		0.054	mg/L		03/14/2006 10:21		WWC	
MSD Result for Thallium by GFAAS		0.053	mg/L		03/14/2006 10:29		WWC	
S/MSD Precision for Thallium by GFAAS		1.87	%		03/14/2006 10:21		WWC	
Thallium by GFAAS		< MDL	mg/L	U	03/14/2006 10:05		WWC	
Batch Name TOC-5988		QA Sample ID AE09876						
Samples AE09959 AE09960								
Method Blank for TOC		< MDL	mg/L	U	03/07/2006 09:11		EMM	
Cont. Cal. Blank for TOC		<MDL	mg/L	U	03/07/2006 13:37		EMM	
Cont Cal TOC		10.2	mg/L		03/07/2006 13:26		EMM	
Cont Calb Rec for TOC		102	%		03/07/2006 13:26		EMM	
Dup for TOC		1.92	mg/L		03/07/2006 10:21		EMM	
ICV for TOC		5.32	mg/L		03/07/2006 09:33		EMM	
ICV Rec for TOC		106	%		03/07/2006 09:33		EMM	
Dup Precision for TOC		1.04	%		03/07/2006 09:57		EMM	
MS Recovery for TOC		98.2	%		03/07/2006 09:57		EMM	
S Result for TOC		6.85	mg/L		03/07/2006 10:47		EMM	
Total Organic Carbon		1.94	mg/L		03/07/2006 09:57		EMM	
Batch Name T-P-6006		QA Sample ID AE10089						
Samples AE09959 AE09960								
Method Blank for Total Phosphate as P		<MDL	mg/L	U	03/09/2006 14:37		IR	
Continuing Cal. Blank for Total Phosphat		<MDL	mg/L	U	03/09/2006 14:47		IR	
Continuous Calibration for Total Phospha		2.03	mg/L		03/09/2006 14:46		IR	

Parameter	Method	Results	Units	Qualifier	Date / Time Analyzed	MDL	PQL	Analyst
Batch Name T-P-6006		QA Sample ID AE10089						
Samples AE09959 AE09960								
Int Calb Rec for Total Phosphate as P		102	%		03/09/2006 14:46			IR
Sample Dup for Total Phosphate as P		7.68	mg/L		03/08/2006 14:39			REED
Initial Calibration for Total Phosphate		1.04	mg/L		03/09/2006 14:38			IR
Int Calb Rec for Total Phosphate as P		104	%		03/09/2006 14:38			IR
Sample Dup Precision for Total Phosphate as P		2.91	%		03/08/2006 14:38			REED
Total Phosphate as P		7.46	mg/L		03/08/2006 14:38			REED
Batch Name T-P-6006A		QA Sample ID AE10087						
Samples AE09959 AE09960								
Ampt Spiked for Total Phosphate as P		0.500	mg/L		03/08/2006 14:40			REED
MS Recovery for Total Phosphate as P		102	%		03/08/2006 14:40			REED
MS Result for Total Phosphate as P		0.612	mg/L		03/08/2006 14:40			REED
Total Phosphate as P		0.100	mg/L		03/08/2006 14:40			REED
Batch Name TSS-5904		QA Sample ID AE09987						
Samples AE09959 AE09960								
Method Blank for TSS		<MDL	mg/L	U	02/28/2006 15:40			LK
Sample Dup for TSS		312	mg/L		02/28/2006 15:40			LK
Initial Calibration for TSS		97.8	mg/L		02/28/2006 15:40			LK
Int Calb Conc for TSS		100	mg/L		02/28/2006 15:40			LSK
Int Calb Rec for TSS		97.8	%		02/28/2006 15:40			LK
Sample Dup Precision for TSS		Pass	%		02/28/2006 15:48			LSK
Total Suspended Solids		290	mg/L		02/28/2006 15:40			LK



DATA QUALIFIER CODES

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 in which the total number of coliform colonies <u>exceeds</u> the method indicated ideal ranges.
C	Analysis performed by contract laboratory
F	When reporting species, this code indicates the female sex.
H	Holiday
I	The reported value is between the lab method detection limit and the lab practical quantitation limit.
J	Estimated value, may not be accurate. Use of this code requires justification for its use and is used in the following situations: 1. Exceeding of surrogate recovery limits 2. Existence of no quality control criteria for a component 3. Failure to meet established precision and accuracy criteria 4. Matrix interference 5. Questionable data due to improper field or lab protocols "J" Values are exclusive and are not used in conjunction with other codes
K	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.
L	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.
M	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.
N	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.
O	Indicates Analysis was lost or not performed.
Q	Analyzed after holding time expired
R	Re-Sample
T	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.
U	Less than the method detection limit
V	Blank contamination. Results are valid and can be reported
X	Time of collection not provided
Y	Laboratory analysis was performed on sample, which was unpreserved or improperly preserved, therefore, the data may be inaccurate.
Z	Too many colonies present. (TNTC)
%	Below FDEP Limits
*	Analysis was not performed due to interference
#	No sample received
?	Indicates that the data 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 determined from the data.
"-"	no data reported

SOUTHERN ANALYTICAL LABORATORIES, INC.

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



Manatee County Utility Operations Central Laboratory/ Industrial
Compliance
5101 65th Street West
Bradenton, FL 34210-

March 21, 2006
Project No: 57757

Laboratory Report

Project Name Surface Water Analyses - Lena Road Landfill
Sample Description SW-1 (AEO 9959)
Matrix Surface Water
SAL Sample Number 57757.01
Date/Time Collected 02/27/06 11:15
Date/Time Received 02/27/06 13:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/l	0.63 U,S13	EPA 8260	0.63	03/09/06 20:48	03/09/06 20:48	JP
1,1,1-Trichloroethane	ug/l	0.46 U,S13	EPA 8260	0.46	03/09/06 20:48	03/09/06 20:48	JP
1,1,2,2-Tetrachloroethane	ug/l	0.14 U,S13	EPA 8260	0.14	03/09/06 20:48	03/09/06 20:48	JP
1,1,2-Trichloroethane	ug/l	0.47 U,S13	EPA 8260	0.47	03/09/06 20:48	03/09/06 20:48	JP
1,1-Dichloroethane	ug/l	0.52 U,S13	EPA 8260	0.52	03/09/06 20:48	03/09/06 20:48	JP
1,1-Dichloroethene	ug/l	0.45 U,S13	EPA 8260	0.45	03/09/06 20:48	03/09/06 20:48	JP
1,2,3-Trichloropropane	ug/l	0.15 U,S13	EPA 8260	0.15	03/09/06 20:48	03/09/06 20:48	JP
1,2-Dibromo-3-chloropropane	ug/l	0.74 U,S13	EPA 8260	0.74	03/09/06 20:48	03/09/06 20:48	JP
1,2-Dibromoethane Ethylene dibromide	ug/l	0.50 U,S13	EPA 8260	0.50	03/09/06 20:48	03/09/06 20:48	JP
1,2-Dichlorobenzene	ug/l	0.44 U,S13	EPA 8260	0.44	03/09/06 20:48	03/09/06 20:48	JP
1,2-Dichloroethane	ug/l	0.57 U,S13	EPA 8260	0.57	03/09/06 20:48	03/09/06 20:48	JP
1,2-Dichloropropane	ug/l	0.52 U,S13	EPA 8260	0.52	03/09/06 20:48	03/09/06 20:48	JP
1,4-Dichlorobenzene	ug/l	0.52 U,S13	EPA 8260	0.52	03/09/06 20:48	03/09/06 20:48	JP
2-Hexanone	ug/l	4.4 U,S13	EPA 8260	4.4	03/09/06 20:48	03/09/06 20:48	JP
Acetone	ug/l	9.9 U,S13	EPA 8260	9.9	03/09/06 20:48	03/09/06 20:48	JP
Acrylonitrile	ug/l	1.2 U,S13	EPA 8260	1.2	03/09/06 20:48	03/09/06 20:48	JP
Benzene	ug/l	0.27 U,S13	EPA 8260	0.27	03/09/06 20:48	03/09/06 20:48	JP
Bromochloromethane	ug/l	0.58 U,S13	EPA 8260	0.58	03/09/06 20:48	03/09/06 20:48	JP
Bromodichloromethane	ug/l	0.35 U,S13	EPA 8260	0.35	03/09/06 20:48	03/09/06 20:48	JP
Bromoform Tribromomethane	ug/l	0.58 U,S13	EPA 8260	0.58	03/09/06 20:48	03/09/06 20:48	JP
Bromomethane	ug/l	0.66 U,S13	EPA 8260	0.66	03/09/06 20:48	03/09/06 20:48	JP
Carbon disulfide	ug/l	0.85 U,S13	EPA 8260	0.85	03/09/06 20:48	03/09/06 20:48	JP
Carbon tetrachloride	ug/l	0.42 U,S13	EPA 8260	0.42	03/09/06 20:48	03/09/06 20:48	JP
Chlorobenzene	ug/l	0.63 U,S13	EPA 8260	0.63	03/09/06 20:48	03/09/06 20:48	JP
Chloroethane	ug/l	0.80 U,S13	EPA 8260	0.80	03/09/06 20:48	03/09/06 20:48	JP
Chloroform	ug/l	0.90 U,S13	EPA 8260	0.90	03/09/06 20:48	03/09/06 20:48	JP
Chloromethane	ug/l	0.64 U,S13	EPA 8260	0.64	03/09/06 20:48	03/09/06 20:48	JP
cis-1,2-Dichloroethene	ug/l	0.65 U,S13	EPA 8260	0.65	03/09/06 20:48	03/09/06 20:48	JP
cis-1,3-Dichloropropene	ug/l	0.14 U,S13	EPA 8260	0.14	03/09/06 20:48	03/09/06 20:48	JP
Dibromochloromethane	ug/l	0.34 U,S13	EPA 8260	0.34	03/09/06 20:48	03/09/06 20:48	JP
Dibromomethane	ug/l	0.41 U,S13	EPA 8260	0.41	03/09/06 20:48	03/09/06 20:48	JP
Ethylbenzene	ug/l	0.44 U,S13	EPA 8260	0.44	03/09/06 20:48	03/09/06 20:48	JP
Iodomethane	ug/l	0.67 U,S13	EPA 8260	0.67	03/09/06 20:48	03/09/06 20:48	JP
MEK (2-Butanone)	ug/l	8.4 U,S13	EPA 8260	8.4	03/09/06 20:48	03/09/06 20:48	JP
Methylene chloride Dichloromethane	ug/l	4.0 U,S13	EPA 8260	4.0	03/09/06 20:48	03/09/06 20:48	JP
MIBK (4-Methyl-2-pentanone)	ug/l	3.8 U,S13	EPA 8260	3.8	03/09/06 20:48	03/09/06 20:48	JP
Styrene	ug/l	0.98 U,S13	EPA 8260	0.98	03/09/06 20:48	03/09/06 20:48	JP
Tetrachloroethene	ug/l	0.34 U,S13	EPA 8260	0.34	03/09/06 20:48	03/09/06 20:48	JP
Toluene	ug/l	0.51 U,S13	EPA 8260	0.51	03/09/06 20:48	03/09/06 20:48	JP
trans-1,2-Dichloroethene	ug/l	0.44 U,S13	EPA 8260	0.44	03/09/06 20:48	03/09/06 20:48	JP

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Laboratory/ Industrial
Compliance
5101 65th Street West
Bradenton, FL 34210-

March 21, 2006
Project No: 57757

Laboratory Report

Project Name	Surface Water Analyses - Lena Road Landfill		
Sample Description	SW-1 (AEO 9959)		
Matrix	Surface Water		
SAL Sample Number	57757.01		
Date/Time Collected	02/27/06	11:15	
Date/Time Received	02/27/06	13:00	

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
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Volatile Organic Compounds

trans-1,3-Dichloropropene	ug/l	0.14 U,S13	EPA 8260	0.14	03/09/06 20:48	03/09/06 20:48	JP
trans-1,4-Dichloro-2-butene	ug/l	2.5 U,S13	EPA 8260	2.5	03/09/06 20:48	03/09/06 20:48	JP
Trichloroethene	ug/l	0.28 U,S13	EPA 8260	0.28	03/09/06 20:48	03/09/06 20:48	JP
Trichlorofluoromethane	ug/l	0.98 U,S13	EPA 8260	0.98	03/09/06 20:48	03/09/06 20:48	JP
Vinyl acetate	ug/l	1.5 U,S13	EPA 8260	1.5	03/09/06 20:48	03/09/06 20:48	JP
Vinyl chloride	ug/l	0.50 U,S13	EPA 8260	0.50	03/09/06 20:48	03/09/06 20:48	JP
Xylenes, Total	ug/l	0.30 U,S13	EPA 8260	0.30	03/09/06 20:48	03/09/06 20:48	JP

Field Parameter

Specific Conductance	umhos/cm	580	DEP FT1200		02/27/06 11:15		LRW
Water Temperature	C	16.5	DEP FT1400		02/27/06 11:15		LRW
pH	Units	7.5	DEP FT1100		02/27/06 11:15		LRW
Dissolved Oxygen	mg/l	6.5	DEP FT1500		02/27/06 11:15		LRW
Turbidity	NTU	6.8	DEP FT1600		02/27/06 11:15		LRW

Inorganics

Chlorophyll a, corrected	mg/m3	9.3	SM 10200H	2	03/01/06 16:26	02/27/06 16:20	RJT
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Manatee County Utility Operations Central Laboratory/ Industrial
Compliance
5101 65th Street West
Bradenton, FL 34210-

March 21, 2006
Project No: 57757

Laboratory Report

Project Name Surface Water Analyses - Lena Road Landfill
Sample Description SW-2 (AEO 9960)
Matrix Surface Water
SAL Sample Number 57757.02
Date/Time Collected 02/27/06 10:35
Date/Time Received 02/27/06 13:00

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ug/l	0.63 U,S13	EPA 8260	0.63	03/09/06 20:25	03/09/06 20:25	JP
1,1,1-Trichloroethane	ug/l	0.46 U,S13	EPA 8260	0.46	03/09/06 20:25	03/09/06 20:25	JP
1,1,1,2,2-Tetrachloroethane	ug/l	0.14 U,S13	EPA 8260	0.14	03/09/06 20:25	03/09/06 20:25	JP
1,1,2-Trichloroethane	ug/l	0.47 U,S13	EPA 8260	0.47	03/09/06 20:25	03/09/06 20:25	JP
1,1-Dichloroethane	ug/l	0.52 U,S13	EPA 8260	0.52	03/09/06 20:25	03/09/06 20:25	JP
1,1-Dichloroethene	ug/l	0.45 U,S13	EPA 8260	0.45	03/09/06 20:25	03/09/06 20:25	JP
1,2,3-Trichloropropane	ug/l	0.15 U,S13	EPA 8260	0.15	03/09/06 20:25	03/09/06 20:25	JP
1,2-Dibromo-3-chloropropane	ug/l	0.74 U,S13	EPA 8260	0.74	03/09/06 20:25	03/09/06 20:25	JP
1,2-Dibromoethane	ug/l	0.50 U,S13	EPA 8260	0.50	03/09/06 20:25	03/09/06 20:25	JP
1,2-Dichlorobenzene	ug/l	0.44 U,S13	EPA 8260	0.44	03/09/06 20:25	03/09/06 20:25	JP
1,2-Dichloroethane	ug/l	0.57 U,S13	EPA 8260	0.57	03/09/06 20:25	03/09/06 20:25	JP
1,2-Dichloropropane	ug/l	0.52 U,S13	EPA 8260	0.52	03/09/06 20:25	03/09/06 20:25	JP
1,4-Dichlorobenzene	ug/l	0.52 U,S13	EPA 8260	0.52	03/09/06 20:25	03/09/06 20:25	JP
2-Hexanone	ug/l	4.4 U,S13	EPA 8260	4.4	03/09/06 20:25	03/09/06 20:25	JP
Acetone	ug/l	9.9 U,S13	EPA 8260	9.9	03/09/06 20:25	03/09/06 20:25	JP
Acrylonitrile	ug/l	1.2 U,S13	EPA 8260	1.2	03/09/06 20:25	03/09/06 20:25	JP
Benzene	ug/l	0.27 U,S13	EPA 8260	0.27	03/09/06 20:25	03/09/06 20:25	JP
Bromochloromethane	ug/l	0.58 U,S13	EPA 8260	0.58	03/09/06 20:25	03/09/06 20:25	JP
Bromodichloromethane	ug/l	0.35 U,S13	EPA 8260	0.35	03/09/06 20:25	03/09/06 20:25	JP
Bromoform	ug/l	0.58 U,S13	EPA 8260	0.58	03/09/06 20:25	03/09/06 20:25	JP
Bromomethane	ug/l	0.66 U,S13	EPA 8260	0.66	03/09/06 20:25	03/09/06 20:25	JP
Carbon disulfide	ug/l	0.85 U,S13	EPA 8260	0.85	03/09/06 20:25	03/09/06 20:25	JP
Carbon tetrachloride	ug/l	0.42 U,S13	EPA 8260	0.42	03/09/06 20:25	03/09/06 20:25	JP
Chlorobenzene	ug/l	0.63 U,S13	EPA 8260	0.63	03/09/06 20:25	03/09/06 20:25	JP
Chloroethane	ug/l	0.80 U,S13	EPA 8260	0.80	03/09/06 20:25	03/09/06 20:25	JP
Chloroform	ug/l	0.90 U,S13	EPA 8260	0.90	03/09/06 20:25	03/09/06 20:25	JP
Chloromethane	ug/l	0.64 U,S13	EPA 8260	0.64	03/09/06 20:25	03/09/06 20:25	JP
cis-1,2-Dichloroethene	ug/l	0.65 U,S13	EPA 8260	0.65	03/09/06 20:25	03/09/06 20:25	JP
cis-1,3-Dichloropropene	ug/l	0.14 U,S13	EPA 8260	0.14	03/09/06 20:25	03/09/06 20:25	JP
Dibromochloromethane	ug/l	0.34 U,S13	EPA 8260	0.34	03/09/06 20:25	03/09/06 20:25	JP
Dibromomethane	ug/l	0.41 U,S13	EPA 8260	0.41	03/09/06 20:25	03/09/06 20:25	JP
Ethylbenzene	ug/l	0.44 U,S13	EPA 8260	0.44	03/09/06 20:25	03/09/06 20:25	JP
Iodomethane	ug/l	0.67 U,S13	EPA 8260	0.67	03/09/06 20:25	03/09/06 20:25	JP
MEK (2-Butanone)	ug/l	8.4 U,S13	EPA 8260	8.4	03/09/06 20:25	03/09/06 20:25	JP
Methylene chloride	ug/l	4.0 U,S13	EPA 8260	4.0	03/09/06 20:25	03/09/06 20:25	JP
MIBK (4-Methyl-2-pentanone)	ug/l	3.8 U,S13	EPA 8260	3.8	03/09/06 20:25	03/09/06 20:25	JP
Styrene	ug/l	0.98 U,S13	EPA 8260	0.98	03/09/06 20:25	03/09/06 20:25	JP
Tetrachloroethene	ug/l	0.34 U,S13	EPA 8260	0.34	03/09/06 20:25	03/09/06 20:25	JP
Toluene	ug/l	0.51 U,S13	EPA 8260	0.51	03/09/06 20:25	03/09/06 20:25	JP
trans-1,2-Dichloroethene	ug/l	0.44 U,S13	EPA 8260	0.44	03/09/06 20:25	03/09/06 20:25	JP

SOUTHERN ANALYTICAL LABORATORIES, INC.

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Manatee County Utility Operations Central Laboratory/ Industrial
Compliance
5101 65th Street West
Bradenton, FL 34210-

March 21, 2006
Project No: 57757

Laboratory Report

Project Name	Surface Water Analyses - Lena Road Landfill		
Sample Description	SW-2 (AEO 9960)		
Matrix	Surface Water		
SAL Sample Number	57757.02		
Date/Time Collected	02/27/06	10:35	
Date/Time Received	02/27/06	13:00	

Parameters	Units	Results	Method	Detection Limit	Date/Time Analyzed	Date/Time Prep	Analyst
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Volatile Organic Compounds

trans-1,3-Dichloropropene	ug/l	0.14 U,S13	EPA 8260	0.14	03/09/06 20:25	03/09/06 20:25	JP
trans-1,4-Dichloro-2-butene	ug/l	2.5 U,S13	EPA 8260	2.5	03/09/06 20:25	03/09/06 20:25	JP
Trichloroethene	ug/l	0.28 U,S13	EPA 8260	0.28	03/09/06 20:25	03/09/06 20:25	JP
Trichlorofluoromethane	ug/l	0.98 U,S13	EPA 8260	0.98	03/09/06 20:25	03/09/06 20:25	JP
Vinyl acetate	ug/l	1.5 U,S13	EPA 8260	1.5	03/09/06 20:25	03/09/06 20:25	JP
Vinyl chloride	ug/l	0.50 U,S13	EPA 8260	0.50	03/09/06 20:25	03/09/06 20:25	JP
Xylenes, Total	ug/l	0.30 U,S13	EPA 8260	0.30	03/09/06 20:25	03/09/06 20:25	JP

Field Parameter

Specific Conductance	umhos/cm	390	DEP FT1200		02/27/06 10:35		LRW
Water Temperature	C	16.5	DEP FT1400		02/27/06 10:35		LRW
pH	Units	6.6	DEP FT1100		02/27/06 10:35		LRW
Dissolved Oxygen	mg/l	4.0	DEP FT1500		02/27/06 10:35		LRW
Turbidity	NTU	45	DEP FT1600		02/27/06 10:35		LRW

Inorganics

Chlorophyll a, corrected	mg/m3	11	SM 10200H	2	03/01/06 16:26	02/27/06 16:20	RJT
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5101 65th Street West
Bradenton, FL 34210-

March 21, 2006
Project No: 57757

Laboratory Report

Footnotes

- * Test results presented in this report meet all the requirements of the NELAC standards.
- ** A statement of estimated uncertainty of test results is available upon request.
- U,S13 Analyte was not detected; indicated concentration is method detection limit. Analysis subcontracted to STL, FDOH Cert. No. E84282.

A handwritten signature in black ink, appearing to read "Francis I. Daniels", written over a horizontal line.

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

SAL Project No.

Containers Prepared/ Relinquished:				Instructions / Remarks	
James Hiffman	Date/Time: 2-21-06 1425	Received: Tony Wood	Date/Time: 2/24/06 1520	Seal intact?	Y N N/A
Relinquished: Tony Wood	Date/Time: 2/27/06 1120	Received: Bridget	Date/Time: 2/27/06 1120	Samples intact upon arrival?	Y N N/A
Relinquished: Bridget	Date/Time: 2/27/06	Received: Cal	Date/Time: 2/27/06 ^{12:40}	Received on ice? Temp 1°	(Y) N N/A
Relinquished:	Date/Time:	Received:	Date/Time:	Proper preservatives indicated?	Y N N/A
				Rec'd w/in holding time?	Y N N/A
				Volatiles rec'd w/out headspace?	Y N N/A
				Proper containers used?	Y N N/A

*40 CFR Part 258 Appendix I Metals.

SAL Report Page ____ of ____

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

SAL Project No.

SAL Report Page ____ of ____

SAL Project# 57757
Date: 02/17/06

Date: 02/17/06

Surface Water Sampling Log					
Client Name:	Manatee County Utilities, Inc.	Location:	Lena Road Landfill	Contact:	Jeff Goodwin
				Phone:	941-792-8811 X 5235
Surface Water Description:	SW-1 (AEO 7056)	Sample ID:	.01	GPS LONG:	
				GPS LAT:	
Date Sampled:	3/27/06				

[illegible]

Q12AM

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# 5757

Date: 3/27/06

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:	.02	Phone:	941-792-8811 X 5235
Date Sampled:	3/27/06				
				GPS LONG:	
				GPS LAT:	

Sampling Data

Sampled By / Affiliation	SAL	Sampler Signature:	<i>Long Ward</i>		
Sampling Device:	Direct to Container	Time Collected:	10:35		
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		6.60			
Specific Conductance (umhos)		390.1			
Temperature (°C)		16.5			
Dissolved Oxygen (mg/L)		3.97			
Turbidity (NTU)		45.9			
Sample Appearance		TANIC			
Sample Odor		None			
Field Decontamination:	Y	☒	Field Filtered:	Y	☒
Preservation Checked in the field?	☒	N	Initials:		
Field Cleaned (List sequence and all solutions used):					
<i>Wash</i>					

Site and Weather Conditions:

Clear

Comments (use back of form if necessary)

3/27/06