MANATEE COUNTY GOVERNMENT

Public Works Department

~~74285~~
39884

July 14, 2000

JRM
1/16/01

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Surface H2O

Mr. John Morris, P.G.
Division of Waste Management
Department of Environmental Protection, Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Manatee County Lena and Erie Road Landfills
Semi-Annual Groundwater Reports – Second Half of 1999

Dear Mr. Morris:

Please find enclosed the above referenced reports. In addition, we have enclosed a review of the reports form HDR Engineering, Inc. A groundwater elevation contour map which represents flow conditions during sampling is included as Attachment 3 in HDR's review for Lena Road.

If you have any questions or require additional information, please contact me at 941/795-3473.

Sincerely,

Gus DiFonzo

Gus DiFonzo
Solid Waste Manager

FEB. 2000
SW SAMPLING
EVENT (SW-1 DRY)

Enclosures

cc: Len Bramble, P.E., Public Works Director
Dan Gray, Utilities Operations Manager
Gus DiFonzo, Solid Waste Manager
C. Michael Gore, Landfill Superintendent
Bob Butera, P.E., FDEP
Kim Ford, P.E., FDEP
William Embree, P.E., HDR Engineering, Inc.

ADMINISTRATION • 4410 - 66th Street West, Bradenton, Florida 34210 • (941) 792-8811 • FAX (941) 795-3490

P.O. Box 25010, Bradenton, Florida 34206

July 14, 2000

HDR

Mr. Gus Difonzo
Manatee County Public Works Department
4410 66th Street West
Bradenton, FL 34210

RE: Review of Semi-Annual Sample Results-Lena Road Landfill
1st Half 2000 Sampling Event

Dear Mr. Difonzo:

As requested by the County, HDR has prepared the FDEP groundwater analysis reporting forms (Attachment 1), and has reviewed the data for the first half of 2000 sampling event for the Lena Road landfill. Analytical reports are included in Attachment 2. The analytical data shows that most of the parameters were below the laboratory detection limit. Constituents consistently detected at the monitoring wells include ammonia, chloride, sodium, TDS, and iron. Other metals detected in some of the wells include arsenic barium, chromium, lead, vanadium, and zinc. Constituents exceeding the Maximum Contaminant Levels (MCL) for drinking water, as defined in 62-550 F.A.C., include the following:

- Iron was above the MCL at all surficial monitoring wells, ranging in concentration from 0.31 to 41 mg/l. The MCL for iron is 0.3 mg/l. The MCL for iron was exceeded at two of the background wells (SMR-1, MW-1). The iron exceedances can be attributed to background conditions, since iron frequently exceeds the MCL in the surficial aquifer.
- TDS exceeded the MCL at shallow well CW-4, at a concentration of 1100 mg/l. The MCL for TDS is 500 mg/l. The MCL was also exceeded at deep well SA-6 (570 mg/l). TDS is commonly above the MCL along the western third of Manatee County.
- Arsenic was slightly over the MCL at MW-2. The detected concentration was 0.098 mg/l. The MCL for arsenic is 0.05 mg/l.
- pH was slightly below the lower MCL of 6.5 standard units at most of the surficial monitoring wells. pH ranging from 7.4 to 4.6 standard units is typical of the surficial aquifer in Manatee County. Turbidity exceeded 4 NTU at well SMR-1 only.

Vanadium was detected at some of the wells during the sampling event, however, no MCL has been established for vanadium. The Groundwater Cleanup Target Level for vanadium, as established under 62-777 F.A.C. is 0.049 mg/l. This target level was slightly exceeded at MW-2, MW-6, and background well SMR-1.

The review of the analytical results indicate that most of the MCL exceedances can be attributed to natural background conditions within the surficial aquifer, such as iron, TDS, and pH. A groundwater elevation contour map, which represents flow conditions during sampling, is included in Attachment 3.

HDR Engineering, Inc.
Employee Owned

2202 North West Shore Boulevard
Suite 250
Tampa, Florida
33607-5755

Telephone
813 282-2300
Fax
813 282-2430

Surface water sampling point SW-1 was dry and could not be sampled therefore, no laboratory report or sampling report form is included for this sampling point.

HDR appreciates the opportunity to assist the County with this project. Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely,

HDR ENGINEERING, INC.

Deborah Daigle, P.G.
Sr. Hydrogeologist

William B. Embree
Assistant Manager,
Environmental and Resource
Management Section

Attachment

Facility GMS No.:	4041C02025	**Sampling Date:**	February 14, 2000
Test I.D. No.:		**Report Period**	1st half 2000
Well Name	DUPLICATE	**Well Purged:**	NA
Classification of Ground Water:	Surface Water	**Well Type:**	NA
Ground Water Elevation (NGVD):	NA		

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS RESULTS		DETECTION LIMITS	
81552	Acetone	Bailer	NO	EPA 8260	24-Feb-00	<25	ug/l	25	ug/l
34215	Acrylonitrile	Bailer	NO	EPA 8260	24-Feb-00	<20	ug/l	20	ug/l
34030	Benzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
73805	Bromochloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
32101	Bromodichloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Bromoform	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Carbon disulfide	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
32102	Carbon Tetrachloride	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34301	Chlorobenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34311	Chloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Chloroform	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
32105	Dibromochloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
38437	1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Ethylene Dibromide	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	1, 2-Dichlorobenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	1, 4-Dichlorobenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
49263	trans-1,4-Dichloro-2-butene	Bailer	NO	EPA 8260	24-Feb-00	<2.0	ug/l	2.0	ug/l
34496	1,1-Dichloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34531	1,2-Dichloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	1,1 Dichloroehtylene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	cis-1,2-Dichloroethylene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	trans-1,2-Dichloroehtylene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34541	1,2-Dichloropropane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34704	cis-1,3-Dichloropropene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34699	trans-1,3-Dichloropropene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34371	Ethylbenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77103	2-Hexanone	Bailer	NO	EPA 8260	24-Feb-00	<10.0	ug/l	10	ug/l
	Bromomethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34418	Chloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34536	Dibromomethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Methylene chloride	Bailer	NO	EPA 8260	24-Feb-00	<5.0	ug/l	5.0	ug/l
81595	2-Butanone	Bailer	NO	EPA 8260	24-Feb-00	<10.0	ug/l	10.0	ug/l
	Iodomethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
78133	4-Methyl-2-pentanone	Bailer	NO	EPA 8260	24-Feb-00	<10	ug/l	10	ug/l
77128	Styrene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77562	1,1,1,2-Tetrachloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34516	1,1,2,2-Tetrachloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Tetrachloroethene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34010	Toluene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34506	1,1,1,-Trichloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34511	1,1,2-Trichlorethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
39180	Trichloroethene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34488	Trichlorofluoromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77443	1,2,3-Trichloropropane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77057	Vinyl acetate	Bailer	NO	EPA 8260	24-Feb-00	<2.0	ug/l	2.0	ug/l
39175	Vinyl chloride	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Xylenes	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	0.010	ug/l
01002	Arsenic	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01007	Barium	Bailer	NO	EPA 6010	25-Feb-00	0.018	mg/l	0.010	mg/l
01010	Beryllium	Bailer	NO	EPA 6010	25-Feb-00	<0.0040	mg/l	0.0040	mg/l
01027	Cadmium	Bailer	NO	EPA 6010	25-Feb-00	<0.0050	mg/l	0.0050	mg/l
01034	Chromium	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01037	Cobalt	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01042	Copper	Bailer	NO	EPA 6010	25-Feb-00	<0.020	mg/l	0.020	mg/l
01051	Lead	Bailer	NO	EPA 6010	25-Feb-00	<0.0050	mg/l	0.0050	mg/l
01067	Nickel	Bailer	NO	EPA 6010	25-Feb-00	<0.040	mg/l	0.040	mg/l
01147	Selenium	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01077	Silver	Bailer	NO	EPA 6010	25-Feb-00	<0.0010	mg/l	0.0010	mg/l
01087	Vanadium	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01092	Zinc	Bailer	NO	EPA 6010	25-Feb-00	<0.020	mg/l	0.020	mg/l
	1,2-Dibromoethane	Bailer	NO	EPA 504	24-Feb-00	<0.020	mg/l	0.020	mg/l
	Iron	Bailer	NO	EPA 6010	25-Feb-00	1.8	mg/l	0.050	mg/l
71900	Mercury	Bailer	NO	EPA 245.1	29-Feb-00	<0.00020	mg/l	0.00020	mg/l
01059	Thallium	Bailer	NO	EPA 6010	29-Feb-00	<0.0020	mg/l	0.0020	mg/l
	Hardness as CaCO3	Grab	NO		14-Feb-00	230	mg/l	3.300	mg/l
70300	Total Dissolved Solids	Bailer	NO	EPA160.1	16-Feb-00	390	mg/l	5.0	mg/l
	Suspended Solids	Grab	NO	EPA 160.2	18-Feb-00	6.8	mg/l	5.000	mg/l
00630	Nitrate	Grab	NO	EPA353.3	16-Feb-00	0.18	mg/l	0.050	mg/l
	Nitrite	Grab	NO	EPA353.3	16-Feb-00	0.075	mg/l	0.050	mg/l
00641	Ammonia (as N)	Grab	NO	EPA 350.1	21-Feb-00	0.29	mg/l	0.030	mg/l
	Ammonia Unionized	Grab	NO	FDEP 10/83	21-Feb-00	0.0019	mg/l	NA	mg/l
	Total Kjeldahl Nitrogen-N	Grab	NO	EPA 351.2	17-Feb-00	1.5	mg/l	0.200	mg/l
	Total Nitrogen-N	Grab	NO	EPA 351.2	21-Feb-00	1.8	mg/l	0.250	mg/l
	BOD (5 Day)	Grab	NO	EPA 401.5/5210B	15-Feb-00	<2.0	mg/l	2.0	mg/l
	Total Phosphorous	Grab	NO	EPA 365.4	17-Feb-00	0.19	mg/l	0.100	mg/l
	Total Organic Carbon	Grab	NO	EPA 415.1	26-Feb-00	21	mg/l	1.000	mg/l
	Chemical Oxygen Demand	Grab	NO	SM422OC	21-Feb-00	53	mg/l	20.000	mg/l
	Chlorophyll-a	Grab	NO		14-Feb-00	*F71	ug/l	0.100	mg/l
	Fecal Coliform	Grab	NO	EPA 600/4-79-020	14-Feb-00	200	col/100 ml	1.000	col/100
	pH *	Grab	NO	Fld. Para.	14-Feb-00	N/A	std. unts.		
	Specific Conductance *	Grab	NO	Fld. Para.	14-Feb-00	N/A	micromhos		
	Temperature *	Grab	NO	Fld. Para.	14-Feb-00	N/A	Degrees C		
	Dissolved Oxygen*	Grab	NO	Fld. Para.	15-Feb-00	N/A	mg/L		

* Average value of three field measurements.
FDEP COMQAP Number 890142G
Sampling and analysis by Savannah Laboratories Inc.

Facility GMS No.:	4041C02025	**Sampling Date:**	February 14, 2000
Test I.D. No.:		**Report Period**	1st half 2000
Well Name	SW-2	**Well Purged:**	NA
Classification of Ground Water:	Surface Water	**Well Type:**	NA
Ground Water Elevation (NGVD):	NA		

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS DATE	ANALYSIS RESULTS		DETECTION LIMITS	
81552	Acetone	Bailer	NO	EPA 8260	24-Feb-00	<25	ug/l	25	ug/l
34215	Acrylonitrile	Bailer	NO	EPA 8260	24-Feb-00	<20	ug/l	20	ug/l
34030	Benzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
73805	Bromochloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
32101	Bromodichloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Bromoform	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Carbon disulfide	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
32102	Carbon Tetrachloride	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34301	Chlorobenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34311	Chloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Chloroform	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
32105	Dibromochloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
38437	1,2-Dibromo-3-chloropropane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Ethylene Dibromide	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	1, 2-Dichlorobenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	1, 4-Dichlorobenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
49263	trans-1,4-Dichloro-2-butene	Bailer	NO	EPA 8260	24-Feb-00	<2.0	ug/l	2.0	ug/l
34496	1,1-Dichloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34531	1,2-Dichloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	1,1 Dichloroehtylene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	cis-1,2-Dichloroethylene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	trans-1,2-Dichloroehtylene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34541	1,2-Dichloropropane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34704	cis-1,3-Dichloropropene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34699	trans-1,3-Dichloropropene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34371	Ethylbenzene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77103	2-Hexanone	Bailer	NO	EPA 8260	24-Feb-00	<10.0	ug/l	10	ug/l
	Bromomethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34418	Chloromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34536	Dibromomethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Methylene chloride	Bailer	NO	EPA 8260	24-Feb-00	<5.0	ug/l	5.0	ug/l
81595	2-Butanone	Bailer	NO	EPA 8260	24-Feb-00	<10.0	ug/l	10.0	ug/l
	Iodomethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
78133	4-Methyl-2-pentanone	Bailer	NO	EPA 8260	24-Feb-00	<10	ug/l	10	ug/l
77128	Styrene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77562	1,1,1,2-Tetrachloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34516	1,1,2,2-Tetrachloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Tetrachloroethene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34010	Toluene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34506	1,1,1,-Trichloroethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34511	1,1,2-Trichlorethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
39180	Trichloroethene	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
34488	Trichlorofluoromethane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77443	1,2,3-Trichloropropane	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
77057	Vinyl acetate	Bailer	NO	EPA 8260	24-Feb-00	<2.0	ug/l	2.0	ug/l
39175	Vinyl chloride	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	1.0	ug/l
	Xylenes	Bailer	NO	EPA 8260	24-Feb-00	<1.0	ug/l	0.010	ug/l
01002	Arsenic	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01007	Barium	Bailer	NO	EPA 6010	25-Feb-00	0.020	mg/l	0.010	mg/l
01010	Beryllium	Bailer	NO	EPA 6010	25-Feb-00	<0.0040	mg/l	0.0040	mg/l
01027	Cadmium	Bailer	NO	EPA 6010	25-Feb-00	<0.0050	mg/l	0.0050	mg/l
01034	Chromium	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01037	Cobalt	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01042	Copper	Bailer	NO	EPA 6010	25-Feb-00	<0.020	mg/l	0.020	mg/l
01051	Lead	Bailer	NO	EPA 6010	25-Feb-00	<0.0050	mg/l	0.0050	mg/l
01067	Nickel	Bailer	NO	EPA 6010	25-Feb-00	<0.040	mg/l	0.040	mg/l
01147	Selenium	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01077	Silver	Bailer	NO	EPA 6010	25-Feb-00	<0.0010	mg/l	0.0010	mg/l
01087	Vanadium	Bailer	NO	EPA 6010	25-Feb-00	<0.010	mg/l	0.010	mg/l
01092	Zinc	Bailer	NO	EPA 6010	25-Feb-00	<0.020	mg/l	0.020	mg/l
	1,2-Dibromoethane	Bailer	NO	EPA 504	24-Feb-00	<0.020	mg/l	0.020	mg/l
	Iron	Bailer	NO	EPA 6010	25-Feb-00	1.7	mg/l	0.050	mg/l
71900	Mercury	Bailer	NO	EPA 245.1	29-Feb-00	<0.00020	mg/l	0.00020	mg/l
01059	Thallium	Bailer	NO	EPA 6010	29-Feb-00	<0.0020	mg/l	0.0020	mg/l
	Hardness as CaCO3	Grab	NO		14-Feb-00	230	mg/l	3.300	mg/l
70300	Total Dissolved Solids	Bailer	NO	EPA160.1	16-Feb-00	390	mg/l	5.0	mg/l
	Suspended Solids	Grab	NO	EPA 160.2	18-Feb-00	7.6	mg/l	5.000	mg/l
00630	Nitrate	Grab	NO	EPA353.3	16-Feb-00	0.17	mg/l	0.050	mg/l
	Nitrite	Grab	NO	EPA353.3	16-Feb-00	0.077	mg/l	0.050	mg/l
00641	Ammonia (as N)	Grab	NO	EPA 350.1	21-Feb-00	0.30	mg/l	0.030	mg/l
	Ammonia Unionized	Grab	NO	FDEP 10/83	21-Feb-00	0.0020	mg/l	NA	mg/l
	Total Kjeldahl Nitrogen-N	Grab	NO	EPA 351.2	17-Feb-00	1.5	mg/l	0.200	mg/l
	Total Nitrogen-N	Grab	NO	EPA 351.2	21-Feb-00	1.7	mg/l	0.250	mg/l
	BOD (5 Day)	Grab	NO	EPA 401.5/5210B	15-Feb-00	<2.0	mg/l	2.0	mg/l
	Total Phosphorous	Grab	NO	EPA 365.4	17-Feb-00	0.18	mg/l	0.100	mg/l
	Total Organic Carbon	Grab	NO	EPA 415.1	26-Feb-00	21	mg/l	1.000	mg/l
	Chemical Oxygen Demand	Grab	NO	SM422OC	21-Feb-00	53	mg/l	20.000	mg/l
	Chlorophyll-a	Grab	NO		14-Feb-00	*F71	ug/l	0.100	mg/l
	Fecal Coliform	Grab	NO	EPA 600/4-79-020	14-Feb-00	730	col/100 ml	1.000	col/100
	pH *	Grab	NO	Fld. Para.	14-Feb-00	7.12	std. unts.		
	Specific Conductance *	Grab	NO	Fld. Para.	14-Feb-00	719	micromhos		
	Temperature *	Grab	NO	Fld. Para.	14-Feb-00	20.8	Degrees C		
	Dissolved Oxygen*	Grab	NO	Fld. Para.	15-Feb-00	5.93	mg/L		

* Average value of three field measurements.
FDEP COMQAP Number 890142G
Sampling and analysis by Savannah Laboratories Inc.

LENA ROAD LANDFILL
Sampling Period: January through June, 2000

GROUNDWATER MONITORING SAMPLING

Field Parameters:
Static water level in wells before purging
Specific Conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors, sheens

Laboratory Parameters:
Total Ammonia - N
Chlorides
Iron
Mercury
Nitrate
Sodium
Total dissolved solids (TDS)
40 CFR Part 258 Appendix I

Background Wells:
MW-1 GC-6 SMR-1 SMR-2

Compliance Wells:
CW-4

Detection/Compliance Wells:

LRII-1	LRII-2	LRII-3	LRII-4	LR11-5	MW-2	MW-3	MW-5	MW-6	CW-5A	GC-1A
GC-2	GC-3	GC-4	GC-5	SA-2	SA-3	SA-4	SA-5	SA-6	SA-7	SA-8

LEACHATE

Field Parameters:
Specific Conductivity
pH
Dissolved Oxygen
Colors, sheens

Laboratory Parameters:
Total Ammonia - N
Bicarbonate
Chlorides
Iron
Mercury
Nitrate
Sodium
Total dissolved solids (TDS)
40 CFR Part 258 Appendix I
40 CFR Part 258 Appendix II

SURFACE WATER MONITORING
SW - 1 and SW - 2

Field Parameters:
Specific Conductivity
pH
Dissolved Oxygen
Colors, sheens

Laboratory Parameters:
Unionized Ammonia
Total Hardness
Biochemical Oxygen Demand (BOD)
Copper Iron Mercury
Nitrate Zinc
Total Dissolved Solids (TDS)
Total Organic Carbon (TOC)
Fecal Coliform
Total Phosphorous
Chlorophyll A
Total Nitrogen
Chemical Oxygen Demand (COD)
Total Suspended Solids (TSS)
40 CFR Part 258 Appendix I

B06-0491 Serial Number 000115

STL Savannah Laboratories
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (850) 878-3994 Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 Phone: (334) 666-6633 Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE: Lena Rd. Landfill
PROJECT NO.:
PROJECT LOCATION (STATE):
STL (LAB) PROJECT MANAGER: Mike Valder
P.O. NUMBER:
CONTRACT NO.:
CLIENT (SITE) PM: Mike GORE
CLIENT PHONE:
CLIENT FAX:
CLIENT NAME: Manatee Co
CLIENT EMAIL:
CLIENT ADDRESS:
COMPANY CONTRACTING THIS WORK (if applicable):

PAGE OF

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	BOD, NO3 NO2, TDS, TSS	CHLOR A	NH3, TP, TKN, TN	METALS, F, HARD	TOC	COD	8260, App. I	EDB, DBCP	FEL, Col.		REMARKS
								PRESERVATIVE										
2-14-00	1340	SW-2						2	1	1	1	1	1	3	3	3		
		DUPLICATE						2	1	1	1	1	1	3	3	3		
		Trip Blk												3				

RECEIVED MAR 13 2000 SOLID WASTE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Bob P.	2-4-00	1320	Mark Walker	2-14-00	1615			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
Mark Walker	2-4-00	1320	Charles E Volz	2-14-00	1615			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
Charles E Volz	2-14-00	1619	YES NO		B06-0491	

ORIGINAL

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LOG NO: B0-60491
Received: 15 FEB 00
Reported: 10 MAR 00

Ms. Gwen Pagington
Manatee County Public Works Industrial Compliance
Post Office Box 25010
Bradenton, FL 34206

Client PO. No.: P002319

Project: LENA ROAD LANDFILL SURFACE WATER»»»
Sampled By: Savannah Laboratories
Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-1	SW-2	02-14-00/13:40
60491-2	DUPLICATE	02-14-00/13:40

PARAMETER	60491-1	60491-2
Appendix I - Organics (8260)		
Acetone, ug/l	<25	<25
Acrylonitrile, ug/l	<20	<20
Benzene, ug/l	<1.0	<1.0
Bromochloromethane, ug/l	<1.0	<1.0
Bromodichloromethane, ug/l	<1.0	<1.0
Bromoform, ug/l	<1.0	<1.0
Carbon disulfide, ug/l	<1.0	<1.0
Carbon Tetrachloride, ug/l	<1.0	<1.0
Chlorobenzene, ug/l	<1.0	<1.0
Chloroethane, ug/l	<1.0	<1.0
Chloroform, ug/l	<1.0	<1.0
Dibromochloromethane, ug/l	<1.0	<1.0
1,2-Dibromo-3-chloropropane, ug/l	<1.0	<1.0
Ethylene Dibromide, ug/l	<1.0	<1.0
1,2-Dichlorobenzene, ug/l	<1.0	<1.0
1,4-Dichlorobenzene, ug/l	<1.0	<1.0
Trans-1,4-Dichloro-2-butene, ug/l	<2.0	<2.0
1,1-Dichloroethane, ug/l	<1.0	<1.0
1,2-Dichloroethane, ug/l	<1.0	<1.0
1,1-Dichloroethylene, ug/l	<1.0	<1.0
cis-1,2-Dichloroethylene, ug/l	<1.0	<1.0
trans-1,2-Dichloroethylene, ug/l	<1.0	<1.0
1,2-Dichloropropane, ug/l	<1.0	<1.0
cis-1,3-Dichloropropene, ug/l	<1.0	<1.0

RECEIVED
MAR 13 2000
SOLID WASTE

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-1	SW-2	02-14-00/13:40
60491-2	DUPLICATE	02-14-00/13:40

PARAMETER	60491-1	60491-2
trans-1,3-Dichloropropene, ug/l	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0
2-Hexanone, ug/l	<10	<10
Bromomethane, ug/l	<1.0	<1.0
Chloromethane, ug/l	<1.0	<1.0
Dibromomethane, ug/l	<1.0	<1.0
Methylene Chloride, ug/l	<5.0	<5.0
2-Butanone (MEK), ug/l	<10	<10
Iodomethane, ug/l	<1.0	<1.0
4-Methyl-2-pentanone (MIBK), ug/l	<10	<10
Styrene, ug/l	<1.0	<1.0
1,1,1,2-Tetrachloroethane, ug/l	<1.0	<1.0
1,1,2,2-Tetrachloroethane, ug/l	<1.0	<1.0
Tetrachloroethene, ug/l	<1.0	<1.0
Toluene, ug/l	<1.0	<1.0
1,1,1-Trichloroethane, ug/l	<1.0	<1.0
1,1,2-Trichloroethane, ug/l	<1.0	<1.0
Trichloroethene, ug/l	<1.0	<1.0
Trichlorofluoromethane, ug/l	<1.0	<1.0
1,2,3-Trichloropropane, ug/l	<1.0	<1.0
Vinyl acetate, ug/l	<2.0	<2.0
Vinyl chloride, ug/l	<1.0	<1.0
Xylenes, ug/l	<1.0	<1.0
Analysis Date	02.24.00	02.24.00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-1	SW-2	02-14-00/13:40
60491-2	DUPLICATE	02-14-00/13:40

PARAMETER	60491-1	60491-2
Appendix I Metals by ICP (6010)		
Arsenic, mg/l	<0.010	<0.010
Barium, mg/l	0.020	0.018
Beryllium, mg/l	<0.0040	<0.0040
Cadmium, mg/l	<0.0050	<0.0050
Chromium, mg/l	<0.010	<0.010
Cobalt, mg/l	<0.010	<0.010
Copper, mg/l	<0.020	<0.020
Lead, mg/l	<0.0050	<0.0050
Nickel, mg/l	<0.040	<0.040
Selenium, mg/l	<0.010	<0.010
Silver, mg/l	<0.010	<0.010
Vanadium, mg/l	<0.010	<0.010
Zinc, mg/l	<0.020	<0.020
Prep Date	02.23.00	02.25.00
Analysis Date	02.25.00	02.28.00
Ethylene dibromide (Method 504) (504)		
1,2-Dibromoethane (EDB), ug/l	<0.020	<0.020
Prep Date	02.24.00	02.24.00
Analysis Date	02.24.00	02.24.00
Iron, mg/l	1.7	1.8
Prep Date	02.23.00	02.23.00
Analysis Date	02.25.00	02.25.00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-1	SW-2	02-14-00/13:40
60491-2	DUPLICATE	02-14-00/13:40

PARAMETER	60491-1	60491-2
Mercury (245.1)		
Mercury, mg/l	<0.00020	<0.00020
Prep Date	02.18.00	02.18.00
Analysis Date	02.29.00	02.29.00
Thallium (200.9)		
Thallium, mg/l	<0.0020	<0.0020
Prep Date	02.23.00	02.23.00
Analysis Date	02.24.00	02.24.00
Hardness as CaCO3, mg/l	230	230
Total Dissolved Solids (160.1)		
Total Dissolved Solids, mg/l	390	390
Analysis Date	02.16.00	02.16.00
Suspended Solids (160.2), mg/l	7.6	6.8
Analysis Date	02.18.00	02.18.00
Nitrate-N (353.3)		
Nitrate-N, mg/l	0.17	0.18
Analysis Date	02.16.00	02.16.00
Nitrite-N		
Nitrite-N, mg/l	0.077	0.075
Analysis Date	02.16.00	02.16.00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-1	SW-2	02-14-00/13:40
60491-2	DUPLICATE	02-14-00/13:40

PARAMETER	60491-1	60491-2
Ammonia (as N) (350.1), mg/l	0.30	0.29
Prep Date	02.21.00	02.21.00
Analysis Date	02.21.00	02.21.00
Ammonia Unionized (FL-DEP 10/83), mg/l	0.0020	0.0019
Prep Date	02.21.00	02.21.00
Analysis Date	02.21.00	02.21.00
Total Kjeldahl Nitrogen-N (351.2), mg/l	1.5	1.5
Prep Date	02.16.00	02.16.00
Analysis Date	02.17.00	02.17.00
Total Nitrogen, mg/l	1.7	1.8
Analysis Date	02.21.00	02.21.00
Biochemical Oxygen Demand (5 Day) (405.1/5210B), mg/l	<2.0	<2.0
Analysis Date	02.15.00	02.15.00
Total Phosphorus (365.4), mg/l	0.18	0.19
Prep Date	02.16.00	02.16.00
Analysis Date	02.17.00	02.17.00
Organic Carbon, Total (415.1)		
Total Organic Carbon, mg/l	21	21
Analysis Date	02.26.00	02.26.00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-1	SW-2	02-14-00/13:40
60491-2	DUPLICATE	02-14-00/13:40

PARAMETER	60491-1	60491-2
Chemical Oxygen Demand (SM5220C), mg/l	53	53
Prep Date	02.20.00	02.20.00
Analysis Date	02.21.00	02.21.00
Chlorophyll-a, ug/l	*F71	*F71
Fecal Coliform MF, col/100ml	730	200
Analysis Date	02.14.00	02.14.00
Water Elevation (NGVD), feet	NA	NA
pH (Taken in Field), units	7.12	NA
Specific Conductance (Taken in Field), umhos/cm	719	NA
Temperature at Sampling Time, Degrees C	20.8	NA
Dissolved Oxygen (Taken in Field), mg/l	5.93	NA

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-3	TRIP BLANK	02-14-00

PARAMETER	60491-3
Appendix I - Organics (8260)	
Acetone, ug/l	<25
Acrylonitrile, ug/l	<20
Benzene, ug/l	<1.0
Bromochloromethane, ug/l	<1.0
Bromodichloromethane, ug/l	<1.0
Bromoform, ug/l	<1.0
Carbon disulfide, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
Chlorobenzene, ug/l	<1.0
Chloroethane, ug/l	<1.0
Chloroform, ug/l	<1.0
Dibromochloromethane, ug/l	<1.0
1,2-Dibromo-3-chloropropane, ug/l	<1.0
Ethylene Dibromide, ug/l	<1.0
1,2-Dichlorobenzene, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
Trans-1,4-Dichloro-2-butene, ug/l	<2.0
1,1-Dichloroethane, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
cis-1,2-Dichloroethylene, ug/l	<1.0
trans-1,2-Dichloroethylene, ug/l	<1.0
1,2-Dichloropropane, ug/l	<1.0
cis-1,3-Dichloropropene, ug/l	<1.0
trans-1,3-Dichloropropene, ug/l	<1.0

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Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-3	TRIP BLANK	02-14-00

PARAMETER	60491-3
Ethylbenzene, ug/l	<1.0
2-Hexanone, ug/l	<10
Bromomethane, ug/l	<1.0
Chloromethane, ug/l	<1.0
Dibromomethane, ug/l	<1.0
Methylene Chloride, ug/l	<5.0
2-Butanone (MEK), ug/l	<10
Iodomethane, ug/l	<1.0
4-Methyl-2-pentanone (MIBK), ug/l	<10
Styrene, ug/l	<1.0
1,1,1,2-Tetrachloroethane, ug/l	<1.0
1,1,2,2-Tetrachloroethane, ug/l	<1.0
Tetrachloroethene, ug/l	<1.0
Toluene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
1,1,2-Trichloroethane, ug/l	<1.0
Trichloroethene, ug/l	<1.0
Trichlorofluoromethane, ug/l	<1.0
1,2,3-Trichloropropane, ug/l	<1.0
Vinyl acetate, ug/l	<2.0
Vinyl chloride, ug/l	<1.0
Xylenes, ug/l	<1.0
Analysis Date	02.24.00

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-4	Method Blank	
60491-5	Accuracy (%Rec)	
60491-6	Precision (%RPD)	
60491-7	Analyst Initials	
60491-8	Method Number	

PARAMETER	60491-4	60491-5	60491-6	60491-7	60491-8
Appendix I - Organics (8260)					
Acetone, ug/l	<25	---	---	DJD	8260
Acrylonitrile, ug/l	<20	---	---	DJD	8260
Benzene, ug/l	<1.0	94 %	4.2 %	DJD	8260
Bromochloromethane, ug/l	<1.0	---	---	DJD	8260
Bromodichloromethane, ug/l	<1.0	---	---	DJD	8260
Bromoform, ug/l	<1.0	---	---	DJD	8260
Carbon disulfide, ug/l	<1.0	---	---	DJD	8260
Carbon Tetrachloride, ug/l	<1.0	---	---	DJD	8260
Chlorobenzene, ug/l	<1.0	89 %	2.2 %	DJD	8260
Chloroethane, ug/l	<1.0	---	---	DJD	8260
Chloroform, ug/l	<1.0	---	---	DJD	8260
Dibromochloromethane, ug/l	<1.0	---	---	DJD	8260
1,2-Dibromo-3-chloropropane, ug/l	<1.0	---	---	DJD	8260
Ethylene Dibromide, ug/l	<1.0	---	---	DJD	8260
1,2-Dichlorobenzene, ug/l	<1.0	---	---	DJD	8260
1,4-Dichlorobenzene, ug/l	<1.0	---	---	DJD	8260
Trans-1,4-Dichloro-2-butene, ug/l	<2.0	---	---	DJD	8260
1,1-Dichloroethane, ug/l	<1.0	---	---	DJD	8260
1,2-Dichloroethane, ug/l	<1.0	---	---	DJD	8260
1,1-Dichloroethylene, ug/l	<1.0	80 %	0 %	DJD	8260
cis-1,2-Dichloroethylene, ug/l	<1.0	---	---	DJD	8260

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Received: 15 FEB 00
Reported: 10 MAR 00

Ms. Gwen Pagington
Manatee County Public Works Industrial Compliance
Post Office Box 25010
Bradenton, FL 34206

Client PO. No.: P002319

Project: LENA ROAD LANDFILL SURFACE WATER»»»
Sampled By: Savannah Laboratories
Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-4	Method Blank	
60491-5	Accuracy (%Rec)	
60491-6	Precision (%RPD)	
60491-7	Analyst Initials	
60491-8	Method Number	

PARAMETER	60491-4	60491-5	60491-6	60491-7	60491-8
trans-1,2-Dichloroethylene, ug/l	<1.0	---	---	DJD	8260
1,2-Dichloropropane, ug/l	<1.0	---	---	DJD	8260
cis-1,3-Dichloropropene, ug/l	<1.0	---	---	DJD	8260
trans-1,3-Dichloropropene, ug/l	<1.0	---	---	DJD	8260
Ethylbenzene, ug/l	<1.0	---	---	DJD	8260
2-Hexanone, ug/l	<10	---	---	DJD	8260
Bromomethane, ug/l	<1.0	---	---	DJD	8260
Chloromethane, ug/l	<1.0	---	---	DJD	8260
Dibromomethane, ug/l	<1.0	---	---	DJD	8260
Methylene Chloride, ug/l	<5.0	---	---	DJD	8260
2-Butanone (MEK), ug/l	<10	---	---	DJD	8260
Iodomethane, ug/l	<1.0	---	---	DJD	8260
4-Methyl-2-pentanone (MIBK), ug/l	<10	---	---	DJD	8260
Styrene, ug/l	<1.0	---	---	DJD	8260
1,1,1,2-Tetrachloroethane, ug/l	<1.0	---	---	DJD	8260
1,1,2,2-Tetrachloroethane, ug/l	<1.0	---	---	DJD	8260
Tetrachloroethene, ug/l	<1.0	---	---	DJD	8260
Toluene, ug/l	<1.0	87 %	2.3 %	DJD	8260
1,1,1-Trichloroethane, ug/l	<1.0	---	---	DJD	8260
1,1,2-Trichloroethane, ug/l	<1.0	---	---	DJD	8260
Trichloroethene, ug/l	<1.0	90 %	0 %	DJD	8260
Trichlorofluoromethane, ug/l	<1.0	---	---	DJD	8260
1,2,3-Trichloropropane, ug/l	<1.0	---	---	DJD	8260
Vinyl acetate, ug/l	<2.0	---	---	DJD	8260
Vinyl chloride, ug/l	<1.0	---	---	DJD	8260
Xylenes, ug/l	<1.0	---	---	DJD	8260
Analysis Date	02.24.00	02.24.00	---	---	---

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6712 Benjamin Road, Suite 100 · Tampa, FL 33634 · (813) 885-7427 · Fax (813) 885-7049 · www.stlsavlab.com

LOG NO: B0-60491
Received: 15 FEB 00
Reported: 10 MAR 00

Ms. Gwen Pagington
Manatee County Public Works Industrial Compliance
Post Office Box 25010
Bradenton, FL 34206

Client PO. No.: P002319

Project: LENA ROAD LANDFILL SURFACE WATER»»»
Sampled By: Savannah Laboratories
Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-4	Method Blank	
60491-5	Accuracy (%Rec)	
60491-6	Precision (%RPD)	
60491-7	Analyst Initials	
60491-8	Method Number	

PARAMETER	60491-4	60491-5	60491-6	60491-7	60491-8
Appendix I Metals by ICP (6010)					
Arsenic, mg/l	<0.010	100 %	2.2 %	STB	6010
Barium, mg/l	<0.010	101 %	2.3 %	STB	6010
Beryllium, mg/l	<0.0040	97 %	1.5 %	STB	6010
Cadmium, mg/l	<0.0050	99 %	1.5 %	STB	6010
Chromium, mg/l	<0.010	98 %	1.0 %	STB	6010
Cobalt, mg/l	<0.010	101 %	1.7 %	STB	6010
Copper, mg/l	<0.020	96 %	2.4 %	STB	6010
Lead, mg/l	<0.0050	100 %	1.1 %	STB	6010
Nickel, mg/l	<0.040	99 %	1.7 %	STB	6010
Selenium, mg/l	<0.010	97 %	0.91 %	STB	6010
Silver, mg/l	<0.010	102 %	1.6 %	STB	6010
Vanadium, mg/l	<0.010	100 %	1.7 %	STB	6010
Zinc, mg/l	<0.020	101 %	0.76 %	STB	6010
Prep Date	02.23.00	02.23.00	---	---	---
Analysis Date	02.24.00	02.24.00	---	---	---
Ethylene dibromide (Method 504) (504)					
1,2-Dibromoethane (EDB), ug/l	<0.020	84 %	6.0 %	CC	504
Prep Date	02.24.00	02.24.00	---	---	---
Analysis Date	02.24.00	02.24.00	---	---	---
Iron, mg/l	<0.050	102 %	2.4 %	STB	6010
Prep Date	02.23.00	02.23.00	---	---	---
Analysis Date	02.24.00	02.24.00	---	---	---

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Client PO. No.: P002319

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Sampled By: Savannah Laboratories
Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-4	Method Blank	
60491-5	Accuracy (%Rec)	
60491-6	Precision (%RPD)	
60491-7	Analyst Initials	
60491-8	Method Number	

PARAMETER	60491-4	60491-5	60491-6	60491-7	60491-8
Mercury (245.1)					
Mercury, mg/l	<0.00020	109 %	1.7 %	MB	245.1
Prep Date	02.18.00	02.18.00	---	---	---
Analysis Date	02.29.00	02.29.00	---	---	---
Thallium (200.9)					
Thallium, mg/l	<0.0020	87 %	2.7 %	NP	200.9
Prep Date	02.23.00	02.23.00	---	---	---
Analysis Date	02.24.00	02.24.00	---	---	---
Hardness as CaCO3, mg/l	<3.3	100 %	0.44 %	STB	6010
Total Dissolved Solids (160.1)					
Total Dissolved Solids, mg/l	<5.0	100 %	0.70 %	CEH	E160.1
Analysis Date	02.16.00	02.16.00	---	---	---
Suspended Solids (160.2), mg/l	<5.0	99 %	0 %	CEH	E160.2
Analysis Date	02.18.00	02.18.00	---	---	---
Nitrate-N (353.3)					
Nitrate-N, mg/l	<0.050	109 %	4.3 %	TS	E353.3
Analysis Date	02.16.00	02.16.00	---	---	---

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Sampled By: Savannah Laboratories
Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-4	Method Blank	
60491-5	Accuracy (%Rec)	
60491-6	Precision (%RPD)	
60491-7	Analyst Initials	
60491-8	Method Number	

PARAMETER	60491-4	60491-5	60491-6	60491-7	60491-8
Nitrite-N					
Nitrite-N, mg/l	<0.050	101 %	2.3 %	TS	E353.3
Analysis Date	02.16.00	02.16.00	---	---	---
Ammonia (as N) (350.1), mg/l	<0.030	110 %	2.2 %	RD	350.1
Prep Date	02.21.00	02.21.00	---	---	---
Analysis Date	02.21.00	02.21.00	---	---	---
Ammonia Unionized (FL-DEP 10/83), mg/l	---	---	---	---	FL-DER
Total Kjeldahl Nitrogen-N (351.2), mg/l	<0.20	104 %	15 %	RD	351.2
Prep Date	02.16.00	02.16.00	---	---	---
Analysis Date	02.17.00	02.17.00	---	---	---
Total Nitrogen, mg/l	<0.25	---	---	CEH	---
Analysis Date	02.21.00	---	---	---	---
Biochemical Oxygen Demand (5 Day) (405.1/5210B), mg/l	<2.0	87 %	1.7 %	TS	E405.1
Analysis Date	02.16.00	02.15.00	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-4	Method Blank	
60491-5	Accuracy (%Rec)	
60491-6	Precision (%RPD)	
60491-7	Analyst Initials	
60491-8	Method Number	

PARAMETER	60491-4	60491-5	60491-6	60491-7	60491-8
Total Phosphorus (365.4), mg/l	<0.10	104 %	1.0 %	RD	365.4
Prep Date	02.16.00	02.16.00	---	---	---
Analysis Date	02.17.00	02.17.00	---	---	---
Organic Carbon, Total (415.1)					
Total Organic Carbon, mg/l	<1.0	104 %	0.96 %	BB	415.1
Analysis Date	02.26.00	02.26.00	---	---	---
Chemical Oxygen Demand (SM5220C), mg/l	<20	101 %	0 %	CEH	SM5220C
Prep Date	02.20.00	02.20.00	---	---	---
Analysis Date	02.21.00	02.21.00	---	---	---
Chlorophyll-a, ug/l	*F71	*F71	*F71	*F71	*F71
Fecal Coliform MF, col/100ml	<1	---	75 %	CEH	SM9222D
Analysis Date	02.14.00	---	---	---	---

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Sampled By: Savannah Laboratories
Code: 114100310

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-9	Reporting Limit (RL)	

PARAMETER	60491-9				
Appendix I - Organics (8260)					
Acetone, ug/l	25				
Acrylonitrile	20				
Benzene, ug/l	1.0				
Bromochloromethane, ug/l	1.0				
Bromodichloromethane, ug/l	1.0				
Bromoform, ug/l	1.0				
Carbon disulfide, ug/l	1.0				
Carbon Tetrachloride, ug/l	1.0				
Chlorobenzene, ug/l	1.0				
Chloroethane, ug/l	1.0				
Chloroform, ug/l	1.0				
Dibromochloromethane, ug/l	1.0				
1,2-Dibromo-3-chloropropane, mg/l	1.0				
Ethylene Dibromide, ug/l	1.0				
1,2-Dichlorobenzene, ug/l	1.0				
1,4-Dichlorobenzene, ug/l	1.0				
Trans-1,4-Dichloro-2-butene, mg/l	2.0				
1,1-Dichloroethane, ug/l	1.0				
1,2-Dichloroethane, ug/l	1.0				
1,1-Dichloroethylene, ug/l	1.0				
cis-1,2-Dichloroethylene, ug/l	1.0				
trans-1,2-Dichloroethylene, ug/l	1.0				
1,2-Dichloropropane, ug/l	1.0				
cis-1,3-Dichloropropene, ug/l	1.0				
trans-1,3-Dichloropropene, ug/l	1.0				

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
60491-9	Reporting Limit (RL)	

PARAMETER	60491-9
Ethylbenzene, ug/l	1.0
2-Hexanone, ug/l	10
Bromomethane, ug/l	1.0
Chloromethane, ug/l	1.0
Dibromomethane, mg/l	1.0
Methylene Chloride, ug/l	5.0
2-Butanone (MEK), ug/l	10
Iodomethane, mg/l	1.0
4-Methyl-2-pentanone (MIBK), ug/l	10
Styrene, ug/l	1.0
1,1,1,2-Tetrachloroethane, mg/l	1.0
1,1,2,2-Tetrachloroethane, ug/l	1.0
Tetrachloroethene, ug/l	1.0
Toluene, ug/l	1.0
1,1,1-Trichloroethane, ug/l	1.0
1,1,2-Trichloroethane, ug/l	1.0
Trichloroethene, ug/l	1.0
Trichlorofluoromethane, mg/l	1.0
1,2,3-Trichloropropane, mg/l	1.0
Vinyl acetate, ug/l	2.0
Vinyl chloride, ug/l	1.0
Xylenes, ug/l	1.0

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PARAMETER	60491-9
Appendix I Metals by ICP (6010)	
Arsenic, mg/l	0.010
Barium, mg/l	0.010
Beryllium, mg/l	0.0040
Cadmium, mg/l	0.0050
Chromium, mg/l	0.010
Cobalt, mg/l	0.010
Copper, mg/l	0.020
Lead, mg/l	0.0050
Nickel, mg/l	0.040
Selenium, mg/l	0.010
Silver, mg/l	0.010
Vanadium, mg/l	0.010
Zinc, mg/l	0.020
Ethylene dibromide (Method 504) (504)	
1,2-Dibromoethane (EDB), ug/l	0.020
Iron, mg/l	0.050
Mercury (245.1)	
Mercury, mg/l	0.00020
Thallium (200.9)	
Thallium, mg/l	0.0020
Hardness as CaCO3, mg/l	3.3

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REPORT OF RESULTS

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60491-9	Reporting Limit (RL)	

PARAMETER	60491-9
Total Dissolved Solids (160.1)	
Total Dissolved Solids, mg/l	5.0
Suspended Solids (160.2), mg/l	5.0
Nitrate-N (353.3)	
Nitrate-N, mg/l	0.050
Nitrite-N	
Nitrite-N, mg/l	0.050
Ammonia (as N) (350.1), mg/l	0.030
Ammonia Unionized (FL-DEP 10/83), mg/l	---
Total Kjeldahl Nitrogen-N (351.2), mg/l	0.20
Total Nitrogen, mg/l	0.25
Biochemical Oxygen Demand (5 Day) (405.1/5210B), mg/l	2.0
Total Phosphorus (365.4), mg/l	0.10
Organic Carbon, Total (415.1)	
Total Organic Carbon, mg/l	1.0
Chemical Oxygen Demand (SM5220C), mg/l	20
Chlorophyll-a,	*F71

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60491-9	Reporting Limit (RL)	

PARAMETER	60491-9
Fecal Coliform MF, col/100ml	1

Methods: EPA SW-846, Update III, EPA 600/4-79-020.
DOH Certification #'s 84385, E84282, 87279, E87052.

*F71 = Subcontracted results are attached to this report.

Michael F. Valder, Project Manager

Final Page Of Report

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

GRAB AND COMPOSITE FIELD SAMPLING DATA

Client: Manatee Co. - Lena Rd. Landfill

Site Name: Surface Water #2

Location: Bradenton, FL.

Date Sampled: 2/14/00 Time Sampled: 1340

Type of Sample: Water: ✓ Soil: ____ Sludge: ____

Type of Sampling: Grab: ✓ Composite: ____ Other: ____

SITE MAP:

			Calibration	Date/Time	QC
pH	7.12		____ units	___/___	___
Cond.	719	umhos/cm	____ (C)	___/___	___
WT	20.8	oc	____ (umhos/cm)	___/___	___
D.O.	5.93	mg/L			

See Leachate

NOTES:

Color: pale yellow Odor: none Appear: clear

Sampled by: MW/WB

C:\W751\FORMS\GRABCOMP

SAVANNAH ANALYTICAL SERVICES, INC.
2823 LIMERICK STREET
SAVANNAH, GEORGIA 31404
PHONE : (912) 355-8080
FAX : (912) - 356 - 0220

ANALYTICAL REPORT

CLIENT NAME : SAVANNAH LABORATORIES, INC.
ANALYTE : CHLOROPHYLL a
PROJECT REFERENCE:
REQUESTED BY : MIKE VALDER
DETECTION LIMIT (ug / l) : 0.10
RPD : 4.52
DATE REPORTED : 02/22/00

SAS LOG NO. : 2037
P. O. NO. : B625
PROJECT NO. : B06-0491
SAMPLE TYPE : WATER
LAB BLANK : 0.02 ug/l
PREP DATE : 02/21-22/00
ANALYSIS DATE : 02/22/00
DATE COLLECTED: 02/19/00

SAMPLE ID	RESULT	UNITS
SW2	3.65	ug / l
DUPLICATE	3.85	ug / l

STANDARD METHODS : SM 10200H, 18TH EDITION

REPORT APPROVED BY _____

S. STEPHEN BISHOP

BEST AVAILABLE COPY

To Sav. Analytical UPS

Serial Number UUU352

STL Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO. B06-0491	PROJECT LOCATION (STATE) FL
STL (LAB) PROJECT MANAGER	P.O. NUMBER B625	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE 813-885-7427	CLIENT FAX 813-885-7049
CLIENT NAME STL Savannah Lab	CLIENT EMAIL	
CLIENT ADDRESS 6712 Benjamin Rd Ste 100, TP. Fl. 33634		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE ___ OF ___

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

REQUIRED ANALYSES: Cu Ber A

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
2-14-00	1340	SW-2		X				1	
		Duplicate						1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
			[signature]	2-14-00	1730			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
			[signature]	2/15/00	0950			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:

STL SAVANNAH LABORATORY QC