



An employee-owned company

July 9, 2003

Mr. Gus DiFonzo  
Solid Waste Division  
Manatee County Utility Operations Department  
4410 66<sup>th</sup> Street West  
Bradenton, FL 34210

SW & GW  
(leach?)  
~~RECEIVED~~  
JUL 14 2003  
6/9/04

DATA PROVIDED BY MANATEE  
COUNTY WAS NOT PROVIDED  
IN REPORT FORM

ELEVATED MCL REPORTED  
FOR SELENIUM  
ELEVATED TURBIDITY  
AT UPSTREAM LOCATION

Solid Waste Section



**Re: Semi-Annual Water Quality Monitoring Report  
First Half 2003 Sampling Event  
Lena Road Landfill  
GMS ID No. 4041M02025  
FDEP Permit No. 39884-001-SO**

Dear Mr. DiFonzo:

PBS&J is pleased to present this Semi-Annual Water Quality Monitoring Report for the First Half of 2003 sampling event at the Lena Road Landfill (LRL) in Manatee County, Florida. The facility is located at 3333 Lena Road in Bradenton, Florida.

## BACKGROUND

The water quality monitoring network at the LRL is designed to monitor the landfill leachate, the surface water of Cypress Strand, and the groundwater within both the surficial and deep (artesian) aquifers beneath the facility. The leachate samples are collected from the leachate pump station. The surface water samples are collected from two points along Cypress Strand: one is located upstream of the facility that is designated SW-2 and the other is located downstream of the facility that is designated SW-1. Nineteen monitoring wells monitor groundwater quality in the surficial aquifer. The wells are designated CW-4, CW-5A, GC-1A through GC-6, LRII-1 through LRII-5, MW-1 through MW-6 and SMR-1. SMR-1 and GC-6 are background wells for the surficial aquifer. Nine wells are used to monitor groundwater quality in the deep aquifer. The wells are designated SA-1 through SA-8, and SMR-2. SMR-2 is the background well for the deep aquifer. A listing of the components that comprise the water quality network is presented in Table 1.

The Specific Condition 31 of the facility's permit requires that the leachate be sampled annually. The leachate is only sampled during the second half sampling event of each year so it was not conducted as part of this sampling event. Groundwater and surface water samples are collected semi-annually and were collected from every monitoring well and every surface water sampling point in the network during this sampling event. A Florida Department of Environmental Protection (FDEP) Ground Water Monitoring Report form for the First Half 2003 sampling event is provided in Attachment A.

Feb 2003  
SAMPLE  
EVENT

## SAMPLE COLLECTION METHODOLOGY

The surface water samples for the First Half 2003 sampling event were collected on February 18, 2003. The groundwater samples were collected between February 18 and February 25, 2003. The samples were collected by representatives of P.E. LaMoreaux and Associates, Inc. (PELA). Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well at the time of sample collection in order to evaluate the direction of groundwater flow within both the surficial and deep aquifers. The samples were collected in general accordance with the FDEP's Standard Operating Procedure for Field Activities (SOP 001/01). Copies of the field data sheets and the field equipment calibration logs from this sampling event are provided in Attachment B.

The groundwater samples were analyzed for the organic constituents at PELA's Lakeland, Florida laboratory, and for the inorganic constituents at Manatee County Utility Operations' Central Wastewater Laboratory. The samples were analyzed for total ammonia-N, chlorides, iron, mercury, nitrate, sodium, total dissolved solids (TDS) and all of the parameters listed in Appendix I of 40 Code of Federal Regulations (CFR) Part 258. The samples were analyzed in the field at the time of collection for pH, temperature, specific conductivity, dissolved oxygen (DO), and turbidity.

The surface water samples were analyzed in the field for pH, temperature, specific conductivity, DO, and turbidity. The samples were submitted to the same laboratories as the groundwater samples for analysis for total ammonia-N, bicarbonate, chlorides, iron, mercury, nitrate, sodium, TDS, unionized ammonia, total hardness, biochemical oxygen demand (BOD), copper, zinc, total organic carbon (TOC), fecal coliform, total phosphorus, chlorophyll A, total nitrogen, chemical oxygen demand (COD), total suspended solids (TSS), and the parameters listed in Appendix I of 40 CFR Part 258.

## ANALYTICAL RESULTS

### Groundwater Analytical Results

A summary of the groundwater analytical results for the First Half 2003 sampling event is presented in Table 2. The concentrations of all of the parameters that were detected in the groundwater were compared to the regulatory standards to determine whether there were any exceedances. The primary standards for groundwater are the Maximum Contaminant Levels (MCLs), as promulgated by Chapter 62-550 of the Florida Administrative Code (FAC). Not every compound has an MCL, however. In those cases either the Secondary Drinking Water Standard (SDWS) or the Groundwater Cleanup Target Level (GCTL) were used as reference criteria. The SDWS and the GCTLs are also promulgated in Chapter 62-550, FAC. The MCL, SDWS or GCTL for each compound are listed in Table 2. Some compounds do not have a regulatory standard. The complete groundwater analytical report is provided in Attachment C-1.

A summary of the parameters that exceeded the regulatory standards in each aquifer is presented below.

Mr. Gus DiFonzo  
July 9, 2003  
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### Surficial Aquifer

Four inorganic parameters were detected in the surficial aquifer at concentrations in excess of the regulatory criteria - pH, arsenic, iron, and TDS. A description of the detection pattern of each parameter is presented below:

- pH - The only one of the field parameters that has a regulatory standard is pH. It has an SDWS that includes anything outside of the range between 6.5 and 8.5. The groundwater samples collected at the following surficial aquifer monitoring wells had a pH of less than 6.5: SMR-1, GC-2, GC-3, GC-4, GC-5, GC-6, LRII-1, LRII-2, LRII-3, LRII-4, LRII-5, MW-1, MW-2, MW-3, MW-5, and MW-6. Note that the background wells, GC-6 and SMR-1 are included in this group.
- Arsenic - Arsenic has an MCL of 0.05 milligrams per liter (mg/l). The arsenic concentration exceeded its MCL in the sample collected at well GC-2.
- Iron - Iron has a SDWS of 0.3 mg/l. The SDWS was exceeded in the samples collected at every surficial aquifer well, including the background wells.
- TDS - TDS has a SDWS of 500 mg/l. The TDS concentration in the samples collected at surficial aquifer wells CW-4, MW-2 and MW-3 exceeded the standard.

### Deep Aquifer

The only parameters that were detected in the samples collected at the deep aquifer wells were pH and TDS. The pH reading was outside of the prescribed range in the sample collected at well SA-8, and the TDS concentration was higher than the SDWS in the sample collected at well SA-6.

### **Surface Water Analytical Results**

A summary of the surface water analytical results for the First Half 2003 sampling event is presented in Table 3. The concentration of every parameter that was detected in the surface water was compared to its MCL, SDWS, or Surface Water Cleanup Target Level (SWCTL). The SWCTLs are also promulgated by Chapter 62-550, FAC. The complete surface water analytical laboratory report is provided in Attachment C-2.

Iron and arsenic were the only parameters detected in the surface water at concentrations in excess of their respective regulatory standard. The iron concentration exceeded the SDWS in the samples collected at both surface water sampling points. The concentration of arsenic exceeded the standard in the sample collected at point SW-2.

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## ANALYTICAL TRENDS AND ANALYSIS

The pattern of detections with the groundwater and surface water analytical results during the First Half 2003 sampling event were consistent with those of recent sampling events. Although both organic and inorganic analytes have historically been detected in the monitoring network, only inorganic analytes were detected at concentrations in excess of the regulatory standards during this event, including pH, iron, TDS and arsenic. In the surficial aquifer, pH and iron exceeded their respective standards at most of the wells, including the background wells, suggesting that the elevated concentrations reflect the local background conditions. The arsenic and TDS concentrations exceeded their standards at only a few wells scattered across the site. The only exceedances in the deep aquifer were pH and TDS at one well each. Iron and arsenic were also the only parameters that exceeded their respective regulatory standards in the surface water samples.

## GROUNDWATER FLOW PATTERN

The depth-to-water and water level elevation readings taken at each monitoring well during the First Half 2003 sampling event are provided in Table 4. 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). The water level elevation data from the shallow monitoring wells was plotted and contoured to generate the water table elevation contour map presented as Figure 1. The data from the deep wells was used to generate the potentiometric surface contour map for the deep aquifer that is presented in Figure 2.

The configuration of the water table indicates that the groundwater within the surficial aquifer (outside the boundary of the landfill) was flowing in a north-northwesterly direction when the readings were taken. The average horizontal gradient across the site measured 0.001 feet per foot (ft/ft). The configuration of the potentiometric surface of the deep aquifer indicates that the groundwater was flowing to the north-northwest at an average horizontal gradient of 0.006 ft/ft.

Please call me at (407) 647-7275, ext. 339 if you have any questions or need any additional information.

Very truly yours,



Greg Mudd, P.G.  
Senior Geologist

C: File, 120498.90 9400

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**Table 3 - Surface Water Analytical Summary, First Half 2003**

|                                |                             |           | Date Collected | SW-1<br>02/18/03 | SW-2<br>02/18/03 |
|--------------------------------|-----------------------------|-----------|----------------|------------------|------------------|
|                                | MCL<br>SWCTL, or<br>SDWS(1) | UNITS     |                |                  |                  |
| <b>Field Data</b>              |                             |           |                |                  |                  |
| Temperature                    |                             | deg. C    | 18.18          | 21.97            |                  |
| pH                             | 6.5-8.5                     | Standard  | 6.93           | 6.73             |                  |
| Conductivity                   |                             | umhos/cm  | 514            | 612              |                  |
| Dissolved Oxygen               |                             | mg/l      | 7.9            | 4.3              |                  |
| Turbidity                      |                             | NTU       | 10.8           | 75.2             |                  |
| <b>Laboratory</b>              |                             |           |                |                  |                  |
| Biologica Oxygen Demand (BOD)  |                             | mg/l      | <2.00          | <2.00            |                  |
| Calcium                        |                             | mg/l      | 29.5           | 34.9             |                  |
| Chlorophyll A                  |                             | mg/m3     | 0.87           | 4.81             |                  |
| Chemical Oxygen Demand (COD)   |                             | mg/l      | 63.8           | 102              |                  |
| Fecal Coliform                 |                             | cfu/100ml | 490            | 675              |                  |
| Iron                           | 0.3                         | mg/l      | 1.72           | 1.78             |                  |
| Magnesium                      |                             | mg/l      | 11.2           | 11.2             |                  |
| Nitrate                        | 10                          | mg/l      | 0.046          | 0.01             |                  |
| Mercury                        | 2                           | ug/l      | <0.1           | <0.1             |                  |
| T. Ammonia-N                   |                             | mg/l      | 0.055          | 0.066            |                  |
| Total Dissolved Solids (TDS)   | 500                         | mg/l      | 330            | 317              |                  |
| Total Organic Carbon (TOC)     |                             | mg/l      | 21.2           | 23.4             |                  |
| Total Hardness                 |                             | mg/l      | 120            | 125              |                  |
| Total Nitrogen                 |                             | mg/l      | 1.01           | 1.61             |                  |
| Total Phosphorous              |                             | mg/l      | 0.353          | 0.224            |                  |
| Total Suspended Solids (TSS)   |                             | mg/l      | 3.5            | 54.0             |                  |
| Unionized Ammonia              |                             | mg/l      | 0.02           | 0.02             |                  |
| <b>CFR Part 258 Appendix I</b> |                             |           |                |                  |                  |
| <b>Inorganic:</b>              |                             |           |                |                  |                  |
| Antimony                       | 0.006                       | mg/l      | <0.002         | <0.002           |                  |
| Arsenic                        | 0.05                        | mg/l      | <0.007         | 0.092            |                  |
| Barium                         | 2                           | mg/l      | 0.012          | 0.016            |                  |
| Beryllium                      | 0.004                       | mg/l      | <0.0002        | <0.0002          |                  |
| Cadmium                        | 0.005                       | mg/l      | <0.0005        | <0.0005          |                  |
| Chromium                       | 0.1                         | mg/l      | 0.001          | 0.002            |                  |
| Cobalt                         | 0.042                       | mg/l      | <0.002         | <0.002           |                  |
| Copper                         | 1                           | mg/l      | <0.005         | <0.005           |                  |
| Lead                           | 0.015                       | mg/l      | <0.005         | <0.005           |                  |
| Nickel                         | 0.1                         | mg/l      | 0.002          | 0.002            |                  |
| Selenium                       | 0.05                        | mg/l      | <0.010         | <0.010           |                  |
| Silver                         | 0.1                         | mg/l      | <0.002         | <0.002           |                  |
| Thallium                       | 0.002                       | mg/l      | <0.0004        | <0.0004          |                  |
| Vanadium                       | 0.049                       | mg/l      | 0.003          | 0.002            |                  |
| Zinc                           | 5                           | mg/l      | 0.01           | <0.01            |                  |

**Table 3 - Surface Water Analytical Summary, First Half 2003 (Con't)**

|                             | MCL,<br>SWCTL, or<br>SDWS(1) | UNITS | Date Collected | SW-1<br>2/18/03 | SW-2<br>2/18/03 |
|-----------------------------|------------------------------|-------|----------------|-----------------|-----------------|
|                             |                              |       |                |                 |                 |
| Acetone                     | 700                          | ug/l  | <5.0           | <5.0            |                 |
| Acrylonitrile               | 8                            | ug/l  | <5.0           | <5.0            |                 |
| Benzene                     | 1                            | ug/l  | <1.0           | <1.0            |                 |
| Bromochloromethane          | 91                           | ug/l  | <1.0           | <1.0            |                 |
| Bromodichloromethane        | 0.6                          | ug/l  | <1.0           | <1.0            |                 |
| Carbon Disulfide            | 700                          | ug/l  | <1.0           | <1.0            |                 |
| Carbon tetrachloride        | 3                            | ug/l  | <1.0           | <1.0            |                 |
| Chlorobenzene               | 100                          | ug/l  | <1.0           | <1.0            |                 |
| Chloroethane                | 140                          | ug/l  | <1.0           | <1.0            |                 |
| Chloromethane               | 2.7                          | ug/l  | <1.0           | <1.0            |                 |
| Dibromochloromethane        | 0.4                          | ug/l  | <0.05          | <0.05           |                 |
| 1,2-Dibromo-3-chloropropane | 0.2                          | ug/l  | <0.01          | <0.01           |                 |
| Ethylene dibromide          | 0.02                         | ug/l  | <0.01          | <0.01           |                 |
| 1,2-Dichlorobenzene         | 600                          | ug/l  | <1.0           | <1.0            |                 |
| 1,4-Dichlorobenzene         | 75                           | ug/l  | <1.0           | <1.0            |                 |
| trans-1,4-Dichloro-2-butene |                              | ug/l  | <1.0           | <1.0            |                 |
| 1,1-Dichloroethane          | 700                          | ug/l  | <1.0           | <1.0            |                 |
| 1,2-Dichloroethane          | 3                            | ug/l  | <1.0           | <1.0            |                 |
| 1,1-Dichloroethene          | 7                            | ug/l  | <1.0           | <1.0            |                 |
| cis-1,2-Dichloroethene      | 70                           | ug/l  | <1.0           | <1.0            |                 |
| trans-1,2-Dichloroethene    | 100                          | ug/l  | <1.0           | <1.0            |                 |
| 1,2-Dichloropropane         | 5                            | ug/l  | <1.0           | <1.0            |                 |
| cis-1,3-Dichloropropene     |                              | ug/l  | <1.0           | <1.0            |                 |
| trans-1,3-Dichloropropene   |                              | ug/l  | <1.0           | <1.0            |                 |
| Ethylbenzene                | 30                           | ug/l  | <1.0           | <1.0            |                 |
| 2-Hexanone                  | 280                          | ug/l  | <1.0           | <1.0            |                 |
| Methyl bromide              | 10                           | ug/l  | <1.0           | <1.0            |                 |
| Methylene bromide           | 9.8                          | ug/l  | <1.0           | <1.0            |                 |
| Methylene chloride          | 5                            | ug/l  | <1.0           | <1.0            |                 |
| 2-butanone                  | 4200                         | ug/l  | <1.0           | <1.0            |                 |
| Methyl iodide               |                              | ug/l  | <1.0           | <1.0            |                 |
| 4-methyl-2-pentanone        | 350                          | ug/l  | <1.0           | <1.0            |                 |
| Styrene                     | 100                          | ug/l  | <1.0           | <1.0            |                 |
| 1,1,1,2-tetrachloroethane   | 1                            | ug/l  | <1.0           | <1.0            |                 |
| 1,1,2,2-tetrachloroethane   | 0.2                          | ug/l  | <1.0           | <1.0            |                 |
| Tetrachloroethene           | 3                            | ug/l  | <1.0           | <1.0            |                 |
| Toluene                     | 40                           | ug/l  | <1.0           | <1.0            |                 |
| Tribromomethane             |                              | ug/l  | <1.0           | <1.0            |                 |
| 1,1,1-trichloroethane       | 200                          | ug/l  | <1.0           | <1.0            |                 |
| 1,1,2-trichloroethane       | 5                            | ug/l  | <1.0           | <1.0            |                 |
| Trichloroethene             | 3                            | ug/l  | <1.0           | <1.0            |                 |
| Trichloromethane            |                              | ug/l  | <1.0           | <1.0            |                 |
| Trichlorofluoromethane      | 2100                         | ug/l  | <1.0           | <1.0            |                 |
| 1,2,3-Trichloropropane      | 42                           | ug/l  | <1.0           | <1.0            |                 |
| Vinyl acetate               | 250                          | ug/l  | <1.0           | <1.0            |                 |
| Vinyl chloride              | 1                            | ug/l  | <1.0           | <1.0            |                 |
| Xylenes                     | 20                           | ug/l  | <1.0           | <1.0            |                 |

MCL = Maximum Contaminant Level (in bold-faced type); SWCTL = Surface Water Cleanup Target Level;

SDWS = Secondary Drinking Water Standard (in italics).

Shaded concentrations indicate an exceedance of the MCL, SDWSD, or SWCTL. (whichever is lowest)

**Attachment C-2**

**Surface Water Analytical Report**



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

## CASE NARRATIVE

SENT TO: MANATEE COUNTY - SWRTP  
ATTN: JEFF GOODWIN  
5101 65th STREET WEST  
BRADENTON, FLORIDA 34206  
941-792-8788

REPORT ID : 0302060598  
PROJECT NO. :  
PELA CONTACT :  
RECEIVED DATE : 2/18/03  
REPORTED DATE : 3/31/03



### LAB ID #

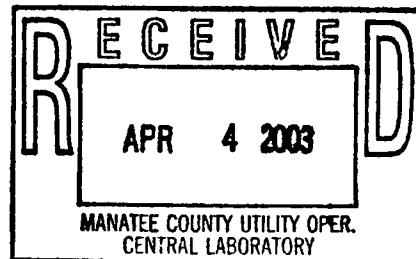
KD02430-02Y  
KD02431-02X-5  
KD02431-03S  
KD02432-02Y  
KD02433-02X-5  
KD02434-02Y  
KD02435-03S  
KD02435-02X-5



### REPORT SUMMARY

Sampling, handling, and holding time criteria were met for all samples.

Samples were collected by PELA according to DEP-SOP-001/01 revised January 1, 2002.

  
Jeff Goodwin  
Laboratory Supervisor  
Joseph M. Hayes

SENIOR CHEMIST

  
Amal Moustafa

LABORATORY DIRECTOR

### CERTIFICATE OF RESULTS

Sample integrity certified prior to analysis. Uncertainties in test results are available upon request. Test results meet all requirements of the NELAC Standards, except as noted in the Case Narrative. This report may not be reproduced in part, results relate only to items tested. This report includes a case narrative, report of analysis, attachments, and chain of custody.

Narrative Page 1 of 1



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

## CLIENT INFORMATION

Client : MANATEE COUNTY - SWRTP  
 5101 65th STREET WEST  
 BRADENTON, FLORIDA 34206

Attention : JEFF GOODWIN

Report ID: 0302060598

## BILLING INFORMATION

Bill To : MANATEE COUNTY - SWRTP  
 ATTN: DARLENE  
 PO BOX 1000  
 BRADENTON, FLORIDA 34206

Purchase Order No. :

Identification : SW 1 1ST EVENT  
 Site : LENA RD LANDFILL  
 Type : WATER

## FIELD PARAMETERS

|                      |         |                |
|----------------------|---------|----------------|
| SPECIFIC CONDUCTANCE | : 514   | MICROMHOS      |
| pH                   | : 6.93  | STANDARD UNITS |
| WATER TEMPERATURE    | : 18.18 | DEGREES C      |
| DISSOLVED OXYGEN     | : 7.90  | mg/L           |
| INITIAL WATER LEVEL  | :       |                |
| WELL ELEVATION       | :       |                |
| FIELD TURBIDITY      | : 10.8  | NTU            |
| FIELD COLOR          | :       |                |
| FACILITY GMS #       | :       |                |

## COMMENTS

COLOR: GOLDEN  
 SHEEN: NONE  
 UNIQUE ID#  
 02Y APP1V  
 Subcontract Lab: FLDOH No. E83018



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

Client Name : MANATEE COUNTY - SWRTP  
Identification : SW 1 1ST EVENT  
Site : LENA RD LANDFILL  
Type : WATER

Report ID: 0302060598

COLLECTION DATE : 2/18/03  
COLLECTION TIME : 14:49  
COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER       | RESULTS | DETECTION LIMITS | UNITS | ANALYST | DATE FINISHED |
|-----------------|---------|------------------|-------|---------|---------------|
| <b>ORGANICS</b> |         |                  |       |         |               |

## APPENDIX I VOLATILES (EPA 8260)

KD02430-02Y

|                           |    |      |      |     |        |
|---------------------------|----|------|------|-----|--------|
| 1,2,3-TRICHLOROPROPANE    | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CIS 1,2-DICHLOROETHENE    | ND | 1.00 | ug/l | SUB | 3/3/03 |
| IODOMETHANE               | ND | 1.00 | ug/l | SUB | 3/3/03 |
| T-1,4-DICHLORO-2-BUTENE   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| STYRENE                   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 2-HEXANONE                | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 4-METHYL-2-PENTANONE      | ND | 1.00 | ug/l | SUB | 3/3/03 |
| DIBROMOMETHANE            | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 2-BUTANONE                | ND | 1.00 | ug/l | SUB | 3/3/03 |
| VINYL ACETATE             | ND | 5.00 | ug/l | SUB | 3/3/03 |
| CARBON DISULFIDE          | ND | 1.00 | ug/l | SUB | 3/3/03 |
| ACETONE                   | ND | 5.00 | ug/l | SUB | 3/3/03 |
| BROMOCHLOROMETHANE        | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1-DICHLOROETHANE        | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CHLOROMETHANE             | ND | 1.00 | ug/l | SUB | 3/3/03 |
| VINYL CHLORIDE            | ND | 1.00 | ug/l | SUB | 3/3/03 |
| BROMOMETHANE              | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CHLOROETHANE              | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TRICHLOROFLUOROMETHANE    | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1-DICHLOROETHENE        | ND | 1.00 | ug/l | SUB | 3/3/03 |
| DICHLOROMETHANE           | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CIS-1,3-DICHLOROPROPENE   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,4-DICHLOROBENZENE       | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TRIBROMOMETHANE           | ND | 1.00 | ug/l | SUB | 3/3/03 |
| XYLEMES                   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| ETHYLBENZENE              | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CHLOROBENZENE             | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TETRACHLOROETHENE         | ND | 1.00 | ug/l | SUB | 3/3/03 |
| DIBROMOCHLOROMETHANE      | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1,2-TRICHLOROETHANE     | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TRANS-1,2-DICHLOROETHENE  | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TOLUENE                   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| ACRYLONITRILE             | ND | 5.00 | ug/l | SUB | 3/3/03 |



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

Client Name : MANATEE COUNTY - SWRTP  
Identification : SW 1 1ST EVENT  
Site : LENA RD LANDFILL  
Type : WATER

Report ID: 0302060598

COLLECTION DATE : 2/18/03  
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COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER                 | RESULTS | DETECTION LIMITS | UNITS | ANALYST | DATE FINISHED |
|---------------------------|---------|------------------|-------|---------|---------------|
| BROMODICHLOROMETHANE      | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| TRICHLOROETHENE           | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,2-DICHLOROPROPANE       | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| CARBON TETRACHLORIDE      | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| BENZENE                   | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,2-DICHLOROETHANE        | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,1,1-TRICHLOROETHANE     | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| TRICHLOROMETHANE          | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,2-DICHLOROBENZENE       | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| TRANS-1,3-DICHLOROPROPENE | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. ND- NONE DETECTED.



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

CLIENT NAME : MANATEE COUNTY - SWRTP  
IDENTIFICATION : SW 1 1ST EVENT  
SITE : LENA RD LANDFILL  
TYPE : WATER

Report ID: 0302060598  
COLLECTION DATE : 2/18/03  
COLLECTION TIME : 14:49  
COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER                | DETECTION |        | RESULTS | UNITS | ANALYST | TIME/DATE<br>STARTED |
|--------------------------|-----------|--------|---------|-------|---------|----------------------|
|                          | METHOD    | LIMITS |         |       |         |                      |
| <b><u>INORGANICS</u></b> |           |        |         |       |         |                      |

KD02431-03S  
CHLOROPHYLL A

10200 H 0.1 0.87 mg/m<sup>3</sup> RLG 9:00 2/25/03  
ND- NONE DETECTED.



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813 PHONE 863/646-8526 FAX 863/646-1042

CLIENT NAME : MANATEE COUNTY - SWRTP  
IDENTIFICATION : SW 1 1ST EVENT  
SITE : LENA RD LANDFILL  
TYPE : WATER

Report ID: 0302060598

COLLECTION DATE : 2/18/03  
COLLECTION TIME : 14:49  
COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER | DETECTION |        | RESULTS | UNITS | ANALYST | TIME/DATE |  |
|-----------|-----------|--------|---------|-------|---------|-----------|--|
|           | METHOD    | LIMITS |         |       |         | STARTED   |  |

## ORGANICS

### EDB & DBCP/ENVIRON WATER

KD02431-02X-5

ETHYLENE DIBROMIDE

DIBROMCHLORPROPANE

EPA 504 0.01 ND ug/L JPT 20:00 3/3/03

EPA 504 0.01 ND ug/L JPT 20:00 3/3/03

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. ND- NONE DETECTED.



# REPORT OF ANALYSIS

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PHONE 863/646-8526

FAX 863/646-1042

## CLIENT INFORMATION

Client : MANATEE COUNTY - SWRTP  
5101 65th STREET WEST  
BRADENTON, FLORIDA 34206

Attention : JEFF GOODWIN

Report ID: 0302060598

## BILLING INFORMATION

Bill To : MANATEE COUNTY - SWRTP  
ATTN: DARLENE  
PO BOX 1000  
BRADENTON, FLORIDA 34206

Purchase Order No. :

## SAMPLE IDENTIFICATION

IDENTIFICATION : SW2 1ST EVENT  
SITE : LENA RD LANDFILL  
TYPE : WATER

## FIELD PARAMETERS

|                      |         |                |
|----------------------|---------|----------------|
| SPECIFIC CONDUCTANCE | : 612   | MICROMHOS      |
| pH                   | : 6.73  | STANDARD UNITS |
| WATER TEMPERATURE    | : 21.97 | DEGREES C      |
| DISSOLVED OXYGEN     | : 4.30  | mg/L           |
| INITIAL WATER LEVEL  | :       |                |
| WELL ELEVATION       | :       |                |
| FIELD TURBIDITY      | : 75.2  | NTU            |
| FIELD COLOR          | :       |                |
| FACILITY GMS #       | :       |                |

## COMMENTS

COLOR: BROWN

SHEEN: PETROL LIKE COLOR

UNIQUE ID#

02X-5 EDBE

03S CHA

0302060598 - PAGE 10 of 18



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P.E. LaMoreaux and Associates, Inc.

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4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

Client Name : MANATEE COUNTY - SWRTP  
Identification : SW2 1ST EVENT  
Site : LENA RD LANDFILL  
Type : WATER

Report ID: 0302060598  
COLLECTION DATE : 2/18/03  
COLLECTION TIME : 13:58  
COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER | RESULTS | DETECTION LIMITS | UNITS | ANALYST | DATE FINISHED |
|-----------|---------|------------------|-------|---------|---------------|
|-----------|---------|------------------|-------|---------|---------------|

## ORGANICS

### APPENDIX I VOLATILES (EPA 8260)

KD02432-02Y

|                           |    |      |      |     |        |
|---------------------------|----|------|------|-----|--------|
| 1,2,3-TRICHLOROPROPANE    | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CIS 1,2-DICHLOROETHENE    | ND | 1.00 | ug/l | SUB | 3/3/03 |
| IODOMETHANE               | ND | 1.00 | ug/l | SUB | 3/3/03 |
| T-1,4-DICHLORO-2-BUTENE   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| STYRENE                   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1,1,2-TETRACHLOROETHANE | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 2-HEXANONE                | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 4-METHYL-2-PENTANONE      | ND | 1.00 | ug/l | SUB | 3/3/03 |
| DIBROMOMETHANE            | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 2-BUTANONE                | ND | 1.00 | ug/l | SUB | 3/3/03 |
| VINYL ACETATE             | ND | 5.00 | ug/l | SUB | 3/3/03 |
| CARBON DISULFIDE          | ND | 1.00 | ug/l | SUB | 3/3/03 |
| ACETONE                   | ND | 5.00 | ug/l | SUB | 3/3/03 |
| BROMOCHLOROMETHANE        | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1-DICHLOROETHANE        | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CHLOROMETHANE             | ND | 1.00 | ug/l | SUB | 3/3/03 |
| VINYL CHLORIDE            | ND | 1.00 | ug/l | SUB | 3/3/03 |
| BROMOMETHANE              | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CHLOROETHANE              | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TRICHLOROFLUOROMETHANE    | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1-DICHLOROETHENE        | ND | 1.00 | ug/l | SUB | 3/3/03 |
| DICHLOROMETHANE           | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CIS-1,3-DICHLOROPROPENE   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,4-DICHLOROBENZENE       | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1,2,2-TETRACHLOROETHANE | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TRIBROMOMETHANE           | ND | 1.00 | ug/l | SUB | 3/3/03 |
| XYLEMES                   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| ETHYLBENZENE              | ND | 1.00 | ug/l | SUB | 3/3/03 |
| CHLOROBENZENE             | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TETRACHLOROETHENE         | ND | 1.00 | ug/l | SUB | 3/3/03 |
| DIBROMOCHLOROMETHANE      | ND | 1.00 | ug/l | SUB | 3/3/03 |
| 1,1,2-TRICHLOROETHANE     | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TRANS-1,2-DICHLOROETHENE  | ND | 1.00 | ug/l | SUB | 3/3/03 |
| TOLUENE                   | ND | 1.00 | ug/l | SUB | 3/3/03 |
| ACRYLONITRILE             | ND | 5.00 | ug/l | SUB | 3/3/03 |



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Client Name : MANATEE COUNTY - SWRTP  
Identification : SW2 1ST EVENT  
Site : LENA RD LANDFILL  
Type : WATER

Report ID: 0302060598

COLLECTION DATE : 2/18/03  
COLLECTION TIME : 13:58  
COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER                 | RESULTS | DETECTION LIMITS | UNITS | ANALYST | DATE FINISHED |
|---------------------------|---------|------------------|-------|---------|---------------|
| BROMODICHLOROMETHANE      | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| TRICHLOROETHENE           | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,2-DICHLOROPROPANE       | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| CARBON TETRACHLORIDE      | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| BENZENE                   | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,2-DICHLOROETHANE        | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,1,1-TRICHLOROETHANE     | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| TRICHLOROMETHANE          | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| 1,2-DICHLOROBENZENE       | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |
| TRANS-1,3-DICHLOROPROPENE | ND      | 1.00             | ug/l  | SUB     | 3/3/03        |

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. ND- NONE DETECTED.



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COLLECTION TIME : 13:58  
COLLECTED BY : PELA  
DATE RECEIVED IN LAB : 2/18/03

| PARAMETER                | DETECTION |        | RESULTS | TIME/DATE<br>STARTED |
|--------------------------|-----------|--------|---------|----------------------|
|                          | METHOD    | LIMITS |         |                      |
| <b><u>INORGANICS</u></b> |           |        |         |                      |

|                              |         |                           |      |       |     |      |         |
|------------------------------|---------|---------------------------|------|-------|-----|------|---------|
| KD02433-03S<br>CHLOROPHYLL A | 10200 H | 0.1<br>ND- NONE DETECTED. | 4.81 | mg/m3 | RLG | 9:00 | 2/25/03 |
|------------------------------|---------|---------------------------|------|-------|-----|------|---------|



# REPORT OF ANALYSIS

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CLIENT NAME : MANATEE COUNTY - SWRTP  
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Report ID: 0302060598

COLLECTION DATE : 2/18/03

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COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/18/03

| PARAMETER | DETECTION |        | RESULTS | UNITS | ANALYST | TIME/DATE |  |
|-----------|-----------|--------|---------|-------|---------|-----------|--|
|           | METHOD    | LIMITS |         |       |         | STARTED   |  |

## ORGANICS

### EDB & DBCP/ENVIRON WATER

|                    |         |      |    |      |     |       |        |
|--------------------|---------|------|----|------|-----|-------|--------|
| KD02433-02X-5      |         |      |    |      |     |       |        |
| ETHYLENE DIBROMIDE | EPA 504 | 0.01 | ND | ug/L | JPT | 20:32 | 3/3/03 |
| DIBROMCHLORPROPANE | EPA 504 | 0.01 | ND | ug/L | JPT | 20:32 | 3/3/03 |

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. ND- NONE DETECTED.

## REPORT OF ANALYSIS

### MANATEE COUNTY UTILITY OPERATIONS CENTRAL WASTEWATER LABORATORY

5101 65TH STREET WEST

BRADENTON, FL 34210

Phone: (941) 792-8811 ext. 5285

Fax: (941) 795-3477

FDOH LAB ID: E54560

USEPA LAB CODE: FL00031

Laboratory Contact: Jeff Goodwin

LAB  
REPORT  
(cont'd.)

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

SAMPLE RECEIPT DATE: February 18, 2003

REPORT DATE: April 7, 2003

PROJECT NAME: Lena Road Landfill  
Semiannual Surface Water Monitoring

#### 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 the items tested and to the samples specified. This report may not be reproduced, except in full, without the written approval of this laboratory.

Jeff Goodwin  
Jeffrey A. Goodwin, Laboratory Supervisor



| Lab ID | Client ID | Sample Location | Collection Date/Time | Parameter         | Method          | Results |   |            | Date /Time Analyzed | MDL         | Analyst    | Cost per sample |        |
|--------|-----------|-----------------|----------------------|-------------------|-----------------|---------|---|------------|---------------------|-------------|------------|-----------------|--------|
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Antimony          | EPA 204.2       | 0.002   | U | mg/L       | 02/21/03 10:58      | 0.002       | mg/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Arsenic           | EPA 200.7       | 0.007   | U | mg/L       | 02/26/03 12:44      | 0.007       | mg/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Barium            | EPA 200.7       | 0.012   |   | mg/L       | 02/26/03 12:44      | 0.0002      | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Beryllium         | EPA 200.7       | 0.0002  | U | mg/L       | 02/26/03 12:44      | 0.0002      | mg/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Calcium           | EPA 200.7       | 29.5    |   | mg/L       | 02/26/03 12:44      | 0.010       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Cadmium           | EPA 200.7       | 0.0005  | U | mg/L       | 02/26/03 12:44      | 0.0005      | mg/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Chromium          | EPA 200.7       | 0.001   |   | mg/L       | 02/26/03 12:44      | 0.0005      | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Cobalt            | EPA 200.7       | 0.002   | U | mg/L       | 02/26/03 12:44      | 0.002       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Copper            | EPA 200.7       | 0.005   | U | mg/L       | 02/26/03 12:44      | 0.005       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Iron              | EPA 200.7       | 1.72    |   | mg/L       | 02/26/03 12:44      | 0.010       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Lead              | EPA 200.7       | 0.005   | U | mg/L       | 02/26/03 12:44      | 0.005       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Magnesium         | EPA 200.7       | 11.2    |   | mg/L       | 02/26/03 12:44      | 0.005       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Nickel            | EPA 200.7       | 0.002   |   | mg/L       | 02/26/03 12:44      | 0.001       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Selenium          | EPA 200.7       | 0.010   | U | mg/L       | 02/26/03 12:44      | 0.010       | mg/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Nitrate           | EPA 300.0       | 0.046   |   | mg/L       | 02/19/03 18:45      | 0.006       | mg/L       | WC              | \$4.90 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Silver            | EPA 200.7       | 0.002   | U | mg/L       | 02/26/03 12:44      | 0.002       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Thallium          | EPA 279.2       | 0.0004  | U | mg/L       | 02/24/03 15:50      | 0.0004      | mg/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Vanadium          | EPA 200.7       | 0.003   |   | mg/L       | 02/26/03 12:44      | 0.0005      | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Zinc              | EPA 200.7       | 0.010   |   | mg/L       | 02/26/03 12:44      | 0.010       | mg/L       | WC              | \$3.70 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Mercury           | EPA 245.1       | 0.100   | U | ug/L       | 03/12/03 10:54      | 0.100       | ug/L       | WC              | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Unionized Ammonia | DEP SOP 10/3/83 | 0.02    |   | mg/L       | 03/17/03 9:55       | CALCULATION | JAG        | \$4.90          |        |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Ammonia as N      | EPA 350.1       | 0.055   |   | mg/L       | 02/19/03 13:49      | 0.009       | mg/L       | EMM             | \$4.39 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | BOD               | SM 5210B        | 2.00    | U | mg/L       | 02/18/03 7:00       | 2.00        | mg/L       | LK/WC           | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | COD               | EPA 410.4       | 63.8    |   | mg/L       | 03/14/03 11:00      | 3.00        | mg/L       | WC              | \$8.60 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Fecal Coliform    | SM 9222D        | 490     |   | CFU/100 ml | 02/18/03 17:10      | 1.00        | CFU/100 ml | LK/JG           | \$4.90 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | TDS               | SM 2540C        | 330     |   | mg/L       | 02/19/03 14:25      | 4.50        | mg/L       | EMM             | \$4.90 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | TOC               | EPA 415.1       | 21.2    |   | mg/L       | 02/28/03 9:58       | 0.050       | mg/L       | EMM             | \$8.60 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Total Hardness    | SM 2340 B       | 120     |   | mg/L       | 03/06/03 2:25       |             | mg/L       | ECC             | \$7.35 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Total Nitrogen    | Calculation     | 1.01    |   | mg/L       | 02/24/03 8:32       |             | mg/L       | ECC             | \$8.95 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | Total Phosphorus  | EPA 365.1       | 0.353   |   | mg/L       | 02/20/03 13:43      | 0.002       | mg/L       | EMM             | \$6.15 |
| SW - 1 | SW - 1    | Lena Road       | 02/18/03 14:49       | TSS               | SM 2540D        | 3.50    |   | mg/L       | 02/19/03 7:42       | 0.500       | mg/L       | EMM             | \$4.90 |

Total Cost for Lena Road SW-1

\$162.14

| Lab ID | Client ID | Sample Location | Collection Date/Time | Parameter         | Method          | Results |   |            | Date /Time Analyzed | MDL         | Analyst    | Cost per sample |        |
|--------|-----------|-----------------|----------------------|-------------------|-----------------|---------|---|------------|---------------------|-------------|------------|-----------------|--------|
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Antimony          | EPA 204.2       | 0.002   | U | mg/L       | 02/21/03 11:14      | 0.002       | mg/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Arsenic           | EPA 200.7       | 0.092   | U | mg/L       | 02/26/03 13:14      | 0.007       | mg/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Barium            | EPA 200.7       | 0.016   |   | mg/L       | 02/26/03 13:14      | 0.0002      | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Beryllium         | EPA 200.7       | 0.0002  | U | mg/L       | 02/26/03 13:14      | 0.0002      | mg/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Calcium           | EPA 200.7       | 34.9    |   | mg/L       | 02/26/03 13:14      | 0.010       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Cadmium           | EPA 200.7       | 0.0005  | U | mg/L       | 02/26/03 13:14      | 0.0005      | mg/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Chromium          | EPA 200.7       | 0.002   |   | mg/L       | 02/26/03 13:14      | 0.0005      | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Cobalt            | EPA 200.7       | 0.002   | U | mg/L       | 02/26/03 13:14      | 0.002       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Copper            | EPA 200.7       | 0.005   | U | mg/L       | 02/26/03 13:14      | 0.005       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Iron              | EPA 200.7       | 17.8    |   | mg/L       | 02/26/03 13:14      | 0.010       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Lead              | EPA 200.7       | 0.005   | U | mg/L       | 02/26/03 13:14      | 0.005       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Magnesium         | EPA 200.7       | 11.2    |   | mg/L       | 02/26/03 13:14      | 0.005       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Nickel            | EPA 200.7       | 0.002   |   | mg/L       | 02/26/03 13:14      | 0.001       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Nitrate           | EPA 300.0       | 0.010   |   | mg/L       | 02/19/03 22:48      | 0.006       | mg/L       | WC              | \$4.90 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Selenium          | EPA 200.7       | 0.010   | U | mg/L       | 02/26/03 13:14      | 0.010       | mg/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Silver            | EPA 200.7       | 0.002   | U | mg/L       | 02/26/03 13:14      | 0.002       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Thallium          | EPA 279.2       | 0.0004  | U | mg/L       | 02/25/03 16:06      | 0.0004      | mg/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Vanadium          | EPA 200.7       | 0.002   |   | mg/L       | 02/26/03 13:14      | 0.0005      | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Zinc              | EPA 200.7       | 0.010   | U | mg/L       | 02/26/03 13:14      | 0.010       | mg/L       | WC              | \$3.70 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Mercury           | EPA 245.1       | 0.100   | U | ug/L       | 03/12/03 10:59      | 0.100       | ug/L       | WC              | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Unionized Ammonia | DEP SOP 10/3/83 | 0.02    |   | mg/L       | 03/17/03 9:55       | CALCULATION | JAG        | \$4.90          |        |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Ammonia as N      | EPA 350.1       | 0.066   |   | mg/L       | 02/19/03 13:47      | 0.009       | mg/L       | EMM             | \$4.39 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | BOD               | SM 5210B        | 2.00    | U | mg/L       | 02/18/03 7:00       | 2.00        | mg/L       | LK/WC           | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | COD               | EPA 410.4       | 102     |   | mg/L       | 03/14/03 11:00      | 3.00        | mg/L       | WC              | \$8.60 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Fecal Coliform    | SM 9222D        | 675     | A | CFU/100 ml | 02/18/03 17:10      | 1           | CFU/100 ml | LK/JG           | \$4.90 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | TDS               | SM 2540C        | 317     |   | mg/L       | 02/19/03 14:25      | 4.50        | mg/L       | EMM             | \$4.90 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | TOC               | EPA 415.1       | 23.4    |   | mg/L       | 03/14/03 16:53      | 0.050       | mg/L       | EMM             | \$8.60 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Total Hardness    | SM 2340 B       | 125     |   | mg/L       | 03/06/03 2:25       |             | mg/L       | ECC             | \$7.35 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Total Nitrogen    | Calculation     | 1.61    |   | mg/L       | 02/24/03 8:32       |             | mg/L       | ECC             | \$8.95 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | Total Phosphorus  | EPA 365.1       | 0.224   |   | mg/L       | 02/20/03 13:44      | 0.002       | mg/L       | EMM             | \$6.15 |
| SW - 2 | SW - 2    | Lena Road       | 02/18/03 13:58       | TSS               | SM 2540D        | 54.0    |   | mg/L       | 02/19/03 7:42       | 0.500       | mg/L       | EMM             | \$4.90 |

Lena Road Surface Water FEB'03 4 of 9

Total Cost for Lena Road SW-2

\$162.14

| Lab ID    | Client ID | Sample Location | Collection Date/Time | Parameter         | Method          | Results |   |      | Date /Time Analyzed | MDL         | Analyst | Cost per sample |        |
|-----------|-----------|-----------------|----------------------|-------------------|-----------------|---------|---|------|---------------------|-------------|---------|-----------------|--------|
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Antimony          | EPA 204.2       | 0.002   | U | mg/L | 02/21/03 11:06      | 0.002       | mg/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Arsenic           | EPA 200.7       | 0.007   | U | mg/L | 02/26/03 13:09      | 0.007       | mg/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Barium            | EPA 200.7       | 0.012   |   | mg/L | 02/26/03 13:09      | 0.0002      | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Beryllium         | EPA 200.7       | 0.0002  | U | mg/L | 02/26/03 13:09      | 0.0002      | mg/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Calcium           | EPA 200.7       | 29.5    |   | mg/L | 02/26/03 13:09      | 0.010       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Cadmium           | EPA 200.7       | 0.0005  | U | mg/L | 02/26/03 13:09      | 0.0005      | mg/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Chromium          | EPA 200.7       | 0.002   |   | mg/L | 02/26/03 13:09      | 0.0005      | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Cobalt            | EPA 200.7       | 0.002   | U | mg/L | 02/26/03 13:09      | 0.002       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Copper            | EPA 200.7       | 0.005   | U | mg/L | 02/26/03 13:09      | 0.005       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Iron              | EPA 200.7       | 1.70    |   | mg/L | 02/26/03 13:09      | 0.010       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Lead              | EPA 200.7       | 0.005   | U | mg/L | 02/26/03 13:09      | 0.005       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Magnesium         | EPA 200.7       | 11.2    |   | mg/L | 02/26/03 13:09      | 0.005       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Nickel            | EPA 200.7       | 0.002   |   | mg/L | 02/26/03 13:09      | 0.001       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Nitrate           | EPA 300.0       | 0.031   |   | mg/L | 02/19/03 21:47      | 0.006       | mg/L    | EMM             | \$4.90 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Selenium          | EPA 200.7       | 0.010   | U | mg/L | 02/26/03 13:09      | 0.010       | mg/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Silver            | EPA 200.7       | 0.002   | U | mg/L | 02/26/03 13:09      | 0.002       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Thallium          | EPA 279.2       | 0.0004  | U | mg/L | 02/25/03 15:58      | 0.0004      | mg/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Vanadium          | EPA 200.7       | 0.003   |   | mg/L | 02/26/03 13:09      | 0.0005      | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Zinc              | EPA 200.7       | 0.010   | U | mg/L | 02/26/03 13:09      | 0.010       | mg/L    | WC              | \$3.70 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Mercury           | EPA 245.1       | 0.100   | U | ug/L | 03/12/03 10:56      | 0.100       | ug/L    | WC              | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Unionized Ammonia | DEP SOP 10/3/83 | 0.02    |   | mg/L | 03/17/03 9:55       | Calculation | JAG     |                 | \$4.90 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Ammonia as N      | EPA 350.1       | 0.059   |   | mg/L | 02/19/03 13:48      | 0.009       | mg/L    | EMM             | \$4.39 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | BOD               | SM 5210B        | 2.00    | U | mg/L | 02/18/03 7:00       | 2.00        | mg/L    | LK/WC           | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | COD               | EPA 410.4       | 61.2    |   | mg/L | 03/14/03 11:00      | 3.00        | mg/L    | WC              | \$8.60 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | TDS               | SM 2540C        | 333     |   | mg/L | 02/19/03 14:25      | 4.50        | mg/L    | EMM             | \$4.90 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | TOC               | EPA 415.1       | 21.2    |   | mg/L | 02/28/03 9:58       | 0.050       | mg/L    | EMM             | \$8.60 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Total Hardness    | SM 2340 B       | 120     |   | mg/L | 03/06/03 2:25       |             | mg/L    | ECC             | \$7.35 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Total Nitrogen    | Calculation     | 0.987   |   | mg/L | 02/24/03 8:32       |             | mg/L    | ECC             | \$8.95 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | Total Phosphorus  | EPA 365.1       | 0.365   |   | mg/L | 02/20/03 13:45      | 0.002       | mg/L    | EMM             | \$6.15 |
| SW -1 DUP | SW -1 DUP | Lena Road       | 02/18/03 14:49       | TSS               | SM 2540D        | 5.50    |   | mg/L | 02/19/03 7:42       | 0.500       | mg/L    | EMM             | \$4.90 |

Total Cost for Lena Road SW-1DUP \$157.24



| SYMBOLS | DATA QUALIFIER CODES   |
|---------|--|
| A       | VALUE REPORTED IS THE MEAN ( AVERAGE) OF TWO OR MORE DETERMINATIONS.   |
| J       | Estimated value, may not be accurate. Use of this code requires justification for its use and is used in the following situations:<br>1. Exceeding of surrogate recovery limits.<br>2. Existence of no quality control criteria for a component.<br>3. Failure to meet established precision and accuracy criteria.<br>4. Matrix interference.<br>5. QUESTIONABLE DATA DUE TO IMPROPER FIELD OR LAB PROTOCOLS.<br>"J" Values are exclusive and are not used in conjunction with other codes. |
| Q       | INDICATES THAT THE SAMPLE WAS PREPARED OR ANALYZED AFTER THE HOLDING TIME EXPIRED.   |
| U       | LESS THAN THE METHOD DETECTION LIMIT.  |
| V       | BLANK CONTAMINATION. RESULTS ARE VALID AND CAN BE REPORTED.  |
| *       | ANALYSIS WAS NOT PERFORMED DUE TO INTERFERENCE.  |

| SYMBOLS | ADDITIONAL CODES THAT MAY HAVE BEEN USED FOR THIS REPORT |
|---------|--|
| R       | RE-SAMPLE.   |
| X       | TIME OF COLLECTION NOT PROVIDED                          |
| #       | NO SAMPLE RECEIVED.                                      |



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

## PART III ANALYTICAL RESULTS

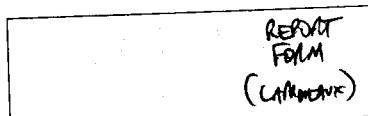
FACILITY GMS # :

TEST SITE ID # : LENA RD LANDFILLWELL NAME : SW 1 1ST EVENTCLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :



| STORET CODE | PARAMETER MONITORED                        | SAMPLING METHOD | FIELD FILTERED Y/N | ANALYSIS METHOD | ANALYSIS DATE TIME | ANALYSIS RESULTS UNITS | DETECTION LIMITS UNITS |
|-------------|--|-----------------|--------------------|-----------------|--------------------|------------------------|------------------------|
|             | ORGANICS<br>KD02430-APPENDIX I VOLATILES ( | *               | N                  |                 | 3/28/03 16:50      | COMPLETED              |                        |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

|       |                           |   |   |          |             |    |      |           |
|-------|---------------------------|---|---|----------|-------------|----|------|-----------|
|       | ORGANICS<br>KD02430-02Y   |   |   |          |             |    |      |           |
| 34506 | 1,1,1-trichloroethane     | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34516 | 1,1,2,2-tetrachloroethane | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34511 | 1,1,2-trichloroethane     | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34496 | 1,1-dichloroethane        | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34501 | 1,1-dichloroethene        | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34536 | 1,2-dichlorobenzene       | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34531 | 1,2-dichloroethane        | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34541 | 1,2-dichloropropane       | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34571 | 1,4-dichlorobenzene       | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34215 | Acrylonitrile             | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 5.00 ug/l |
| 34030 | Benzene                   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 32101 | Bromodichloromethane      | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34413 | Bromomethane              | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 32102 | Carbon tetrachloride      | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34301 | Chlorobenzene             | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34311 | Chloroethane              | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34418 | Chloromethane             | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34704 | cis-1,3-dichloropropene   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 32105 | Dibromochloromethane      | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34423 | Dichloromethane           | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34371 | Ethylbenzene              | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34475 | Tetrachloroethene         | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34010 | Toluene                   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
| 34546 | trans-1,2-dichloroethene  | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
|       | trans-1,3-dichloropropene | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |
|       | Tribromomethane           | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 ug/l |



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

## PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD LANDFILL

WELL NAME : SW 1 1ST EVENT

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0302060598

SAMPLING DATE/TIME : 2/18/03 2:49:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/18/03

COLLECTION TIME : 14:49

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/18/03

| STORET CODE | PARAMETER MONITORED       | SAMPLING METHOD | FIELD FILTERED Y/N | ANALYSIS METHOD | ANALYSIS DATE | TIME | ANALYSIS RESULTS | UNITS | DETECTION LIMITS | UNITS |
|-------------|---------------------------|-----------------|--------------------|-----------------|---------------|------|------------------|-------|------------------|-------|
| 39180       | Trichloroethene           | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 34488       | Trichlorofluoromethane    | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 32106       | Trichloromethane          | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 39175       | Vinyl Chloride            | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81551       | Xylenes                   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
|             | KD02430-02Y               |                 |                    |                 |               |      |                  |       |                  |       |
|             | 1,1,1,2-tetrachloroethane | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
|             | 1,2,3-Trichloropropane    | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81595       | 2-Butanone                | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77103       | 2-Hexanone                | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 78133       | 4-Methyl-2-pentanone      | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81552       | Acetone                   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 5.00             | ug/l  |
| 73085       | Bromochloromethane        | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81309       | Carbon Disulfide          | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77093       | cis 1,2-Dichloroethene    | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 34536       | Dibromomethane            | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77424       | Iodomethane               | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77128       | Styrene                   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 49263       | t-1,4-Dichloro-2-butene   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77057       | Vinyl Acetate             | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 5.00             | ug/l  |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\*BAILER



# REPORT OF ANALYSIS

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FAX 863/646-1042

## PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD LANDFILL

WELL NAME : SW 1 1ST EVENT

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0302060598

SAMPLING DATE/TIME : 2/18/03 2:49:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/18/03

COLLECTION TIME : 14:49

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/18/03

| STORET CODE | PARAMETER MONITORED                        | SAMPLING METHOD | FIELD FILTERED Y/N | ANALYSIS METHOD | ANALYSIS DATE TIME | ANALYSIS RESULTS UNITS | DETECTION LIMITS UNITS |
|-------------|--|-----------------|--------------------|-----------------|--------------------|------------------------|------------------------|
|             | INORGANICS<br>KD02431-03S<br>CHLOROPHYLL A | *               | N                  | 10200 H         | 2/25/03 9:00       | 0.87 mg/m3             | 0.1 mg/m3              |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

|  |                                       |   |   |  |               |           |  |
|--|---------------------------------------|---|---|--|---------------|-----------|--|
|  | ORGANICS<br>KD02431-<br>EDB & DBCP/EW | * | N |  | 3/28/03 16:50 | COMPLETED |  |
|--|---------------------------------------|---|---|--|---------------|-----------|--|

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

|       |   |   |   |         |              |    |      |           |
|-------|---|---|---|---------|--------------|----|------|-----------|
| 38437 | ORGANICS<br>KD02431-02X-5<br>DIBROMCHLORPROPANE | * | N | EPA 504 | 3/3/03 20:00 | ND | ug/L | 0.01 ug/L |
| 46369 | ETHYLENE DIBROMIDE                              | * | N | EPA 504 | 3/3/03 20:00 | ND | ug/L | 0.01 ug/L |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

## PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD LANDFILL

WELL NAME : SW2 1ST EVENT

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0302060598

SAMPLING DATE/TIME : 2/18/03 1:58:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/18/03

COLLECTION TIME : 13:58

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/18/03

| STORET CODE | PARAMETER MONITORED                            | SAMPLING METHOD | FIELD FILTERED Y/N | ANALYSIS METHOD | ANALYSIS DATE TIME | ANALYSIS RESULTS UNITS | DETECTION LIMITS UNITS |
|-------------|--|-----------------|--------------------|-----------------|--------------------|------------------------|------------------------|
|             | ORGANICS<br>KD02432-<br>APPENDIX I VOLATILES ( | *               | N                  |                 | 3/28/03 16:50      | COMPLETED              |                        |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

|       |                           |   |   |          |             |    |      |      |      |
|-------|---------------------------|---|---|----------|-------------|----|------|------|------|
| 34000 | ORGANICS<br>KD02432-02Y   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34516 | 1,1,1-trichloroethane     | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34511 | 1,1,2,2-tetrachloroethane | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34496 | 1,1-dichloroethane        | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34501 | 1,1-dichloroethene        | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34536 | 1,2-dichlorobenzene       | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34531 | 1,2-dichloroethane        | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34541 | 1,2-dichloropropane       | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34571 | 1,4-dichlorobenzene       | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34215 | Acrylonitrile             | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 5.00 | ug/l |
| 34030 | Benzene                   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 32101 | Bromodichloromethane      | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34413 | Bromomethane              | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 32102 | Carbon tetrachloride      | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34301 | Chlorobenzene             | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34311 | Chloroethane              | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34418 | Chloromethane             | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34704 | cis-1,3-dichloropropene   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 32105 | Dibromochloromethane      | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34423 | Dichloromethane           | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34371 | Ethylbenzene              | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34475 | Tetrachloroethene         | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34010 | Toluene                   | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 34546 | trans-1,2-dichloroethene  | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
| 3.    | trans-1,3-dichloropropene | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |
|       | Tribromomethane           | * | N | EPA 8260 | 3/3/03 8:00 | ND | ug/l | 1.00 | ug/l |



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

## PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD LANDFILL

WELL NAME : SW2 1ST EVENT

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0302060598

SAMPLING DATE/TIME : 2/18/03 1:58:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/18/03

COLLECTION TIME : 13:58

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/18/03

| STORET CODE | PARAMETER MONITORED       | SAMPLING METHOD | FIELD FILTERED Y/N | ANALYSIS METHOD | ANALYSIS DATE | TIME | ANALYSIS RESULTS | UNITS | DETECTION LIMITS | UNITS |
|-------------|---------------------------|-----------------|--------------------|-----------------|---------------|------|------------------|-------|------------------|-------|
| 39180       | Trichloroethene           | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 34488       | Trichlorofluoromethane    | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 32106       | Trichloromethane          | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 39175       | Vinyl Chloride            | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81551       | Xylenes                   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
|             | KD02432-02Y               |                 |                    |                 |               |      |                  |       |                  |       |
|             | 1,1,1,2-tetrachloroethane | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
|             | 1,2,3-Trichloropropane    | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81595       | 2-Butanone                | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77103       | 2-Hexanone                | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 78133       | 4-Methyl-2-pentanone      | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81552       | Acetone                   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 5.00             | ug/l  |
| 73085       | Bromochloromethane        | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 81309       | Carbon Disulfide          | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77093       | cis 1,2-Dichloroethene    | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 34536       | Dibromomethane            | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77424       | Iodomethane               | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77128       | Styrene                   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 49263       | t-1,4-Dichloro-2-butene   | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 1.00             | ug/l  |
| 77057       | Vinyl Acetate             | *               | N                  | EPA 8260        | 3/3/03        | 8:00 | ND               | ug/l  | 5.00             | ug/l  |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER



# REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 863/646-8526

FAX 863/646-1042

## PART III ANALYTICAL RESULTS

FACILITY GMS # :

TEST SITE ID # : LENA RD LANDFILL

WELL NAME : SW2 1ST EVENT

CLASSIFICATION OF GROUNDWATER : G II

GROUND WATER ELEVATION (NGVD) :

OR (MSL) :

FEET BMP :

Report ID: 0302060598

SAMPLING DATE/TIME : 2/18/03 1:58:00

REPORT PERIOD (YR/QTR) :

WELL PURGED (Y/N) : Y

WELL TYPE :

COLLECTION DATE : 2/18/03

COLLECTION TIME : 13:58

COLLECTED BY : PELA

DATE RECEIVED IN LAB : 2/18/03

| STORET CODE | PARAMETER MONITORED                        | SAMPLING METHOD | FIELD FILTERED Y/N | ANALYSIS METHOD | ANALYSIS DATE TIME | ANALYSIS RESULTS UNITS | DETECTION LIMITS UNITS |
|-------------|--|-----------------|--------------------|-----------------|--------------------|------------------------|------------------------|
|             | INORGANICS<br>KD02433-03S<br>CHLOROPHYLL A | *               | N                  | 10200 H         | 2/25/03 9:00       | 4.81 mg/m3             | 0.1 mg/m3              |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

|  |                                       |   |   |  |               |           |  |
|--|---------------------------------------|---|---|--|---------------|-----------|--|
|  | ORGANICS<br>KD02433-<br>EDB & DBCP/EW | * | N |  | 3/28/03 16:50 | COMPLETED |  |
|--|---------------------------------------|---|---|--|---------------|-----------|--|

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

|       |   |   |   |         |              |    |      |           |
|-------|---|---|---|---------|--------------|----|------|-----------|
| 38437 | ORGANICS<br>KD02433-02X-5<br>DIBROMCHLORPROPANE | * | N | EPA 504 | 3/3/03 20:32 | ND | ug/L | 0.01 ug/L |
| 46369 | ETHYLENE DIBROMIDE                              | * | N | EPA 504 | 3/3/03 20:32 | ND | ug/L | 0.01 ug/L |

\*SUBMERSIBLE OR PERISTALTIC PUMP

\*\* BAILER

REPORTING ADDRESS:  
ATTN: \_\_\_\_\_  
CLIENT: Manatee Co.  
ADDRESS: \_\_\_\_\_

P.E. LaMor & Associates  
4320 Old Highway 37  
Lakeland, Florida 33813  
(863) 646-8526

No 0599

INVOICING ADDRESS:  
ATTN: \_\_\_\_\_  
CLIENT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

## CHAIN OF CUSTODY

| PROJECT NAME                        |       | PROJECT LOCATION   |       | TYPE: (W)ATER (S)OIL (O)THER | REQUIRED ANALYSIS |  |   |  |        |                    | PAGE           |                | OF                  |       |                  |           |      |      |
|-------------------------------------|-------|--------------------|-------|------------------------------|-------------------|--|---|--|--------|--------------------|----------------|----------------|---------------------|-------|------------------|-----------|------|------|
| Semi Annual Surface Water 1st Event |       | Lena Rd. Landfill  |       |                              | TDS, Nitrate      |  |   | NH3, TOC,<br>Total Phos.<br>Total Nitrogen | COD    | CU, FE, HG,<br>ZN, | Total Hardness | Fecal Coliform | Color               | Sheen | FIELD PARAMETERS |           |      |      |
| PROJECT NO.                         |       | PURCHASE ORDER NO. |       |                              | BOD, TSS          |  |   |  |        |                    |                |                |                     |       |                  |           |      |      |
| PROJECT CONTACT                     |       | PROJECT TEL. NO.   |       |                              |                   |  |   |  |        |                    |                |                |                     |       |                  |           |      |      |
| Jeff Goodwin                        |       |                    |       |                              |                   |  |   |  |        |                    |                |                |                     |       |                  |           |      |      |
| SAMPLER NAME(S)                     |       | S. Helms           |       |                              |                   |  |   |  |        |                    |                |                |                     |       |                  |           |      |      |
| SAMPLING DATE                       |       | TIME               |       | SAMPLE IDENTIFICATION        |                   |  | NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE<br>CONTAINER TYPES: (P)LASTIC (G)LASS (O)THER<br>PRESERVATIVES: (S)ODIUM HYDROXIDE (Su)LFURIC (N)ITRIC (H)YDROCLORIC (I)CED (O)THER |  |        |                    |                |                | SC (turbidity/cm)   |       | pH               | TEMP (°C) | D.O. | NTU  |
| 2/18/03                             | 14:49 | Sw 1               |       |                              |                   |  | 1 P I   | 1 P I                                      | 1 P su | 1 P N              | 1 P I          | golden<br>none | 514                 | 16.93 | 18.48            | 7.90      | 10.8 |      |
| "                                   | 13:58 | Sw 2               |       |                              |                   |  | "   | "  | "      | "                  | "              | "              | 20<br>petrol. cont. | 612   | 6.73             | 21.91     | 4.30 | 75.2 |
| "                                   | -     | Duplicate          |       |                              |                   |  | "   | "  | "      | "                  | "              | "              | -                   | -     | -                | -         | -    |      |
| RELINQUISHED BY:                    |       | DATE               | TIME  | RECEIVED BY:                 |                   |  | RELINQUISHED BY:  |  |        |                    |                |                | DATE                | TIME  | RECEIVED BY:     |           |      |      |
|                                     |       | 2/18/03            | 15:53 |                              |                   |  |   |  |        |                    |                |                |                     |       |                  |           |      |      |

FOR PELA LABORATORY USE ONLY

RECEIVED FOR LAB

DATE

TIME

DATE

TIME

LABORATORY REMARKS

REPORTING ADDRESS:  
ATTN: \_\_\_\_\_  
CLIENT: Manatee Co.  
ADDRESS: \_\_\_\_\_

**P.E. LaMoi x & Associates  
4320 Old Highway 37  
Lakeland, Florida 33813  
(863) 646-8526**

|                    |   |   |
|--------------------|---|---|
| INVOICING ADDRESS: |  |  |
| ATTN: _____        |   |   |
| CLIENT: _____      |   |   |
| ADDRESS: _____     |   |   |

## **CHAIN OF CUSTODY**

| PROJECT NAME <b>Semi Annual Surface Water 1st Event</b> |       | PROJECT LOCATION <b>Lena Rd. Landfill</b> |               | REQUIRED ANALYSIS                   |                  |  |                                   |                |       |       |     | PAGE _____ OF _____   |       |              |              |  |  |  |  |
|---|-------|---|---------------|-------------------------------------|------------------|--|-----------------------------------|----------------|-------|-------|-----|---|-------|--------------|--------------|--|--|--|--|
| PROJECT NO.   |       | PURCHASE ORDER NO.                        |               |                                     |                  |  |                                   |                |       |       |     | <b>FIELD PARAMETERS</b>   |       |              |              |  |  |  |  |
| PROJECT CONTACT<br><b>Jeff Goodwin</b>                  |       | PROJECT TEL. NO.                          |               |                                     |                  |  |                                   |                |       |       |     | SC<br>(mmis/cm)   | pH    | TEMP<br>(°C) | D.O.         |  |  |  |  |
| SAMPLER NAME(S)<br><b>S. Helms</b>                      |       |   |               |                                     |                  |  |                                   |                |       |       |     | NTU   |       |              |              |  |  |  |  |
| SAMPLING DATE   |       | TIME                                      |               | SAMPLE IDENTIFICATION               |                  |  |                                   |                |       |       |     | NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE<br>CONTAINER TYPES: (P)LASTIC (G)LASS (O)THER<br>PRESERVATIVES: (S)ODIUM HYDROXIDE (S)ULFURIC (N)ITRIC (H)YDROCLORIC (I)CED (O)THER |       |              |              |  |  |  |  |
| 2/18/03   | 14:49 | SW 1                                      |               | BOD, TSS                            | TDS, Nitrate     | NH <sub>3</sub> , TOC,<br>Total Phos.<br>Total Nitrogen<br>COD | CU, FE, HG,<br>ZN, Total Hardness | Fecal Coliform | Color | Sheen | 514 | 6.93  | 18.18 | 7.90         | 10.8         |  |  |  |  |
| "   | 13:58 | SW 2                                      |               |                                     |                  |  |                                   |                |       |       | 614 | 6.73  | 21.97 | 4.30         | 75.2         |  |  |  |  |
| "   | "     | -   | Duplicate     |                                     |                  |  |                                   |                |       |       |     |   |       |              |              |  |  |  |  |
| RELINQUISHED BY:<br><i>Ramona Helms</i>                 |       | DATE<br>2/18/03                           | TIME<br>15:53 | RECEIVED BY:<br><i>Jeff Goodwin</i> | RELINQUISHED BY: |  |                                   |                |       |       |     |   | DATE  | TIME         | RECEIVED BY: |  |  |  |  |

RELINQUISHED BY

DATE

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REVIEWED BY ERIN

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第二章 計算機應用

**FOR PELA LABORATORY USE ONLY**

**LABORATORY REMARKS**

1

**WORK ORDER**

REPORTING ADDRESS:  
 ATTN: \_\_\_\_\_  
 CLIENT: Manatee Co.  
 ADDRESS: \_\_\_\_\_

P.E. LaMoi x & Associates  
 4320 Old Highway 37  
 Lakeland, Florida 33813  
 (863) 646-8526

No. 0539

INVOICING ADDRESS:  
 ATTN: \_\_\_\_\_  
 CLIENT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_

### CHAIN OF CUSTODY

|   |       |   |       |                                       |  |                                       |                |                    |                |                                |                     |              |                  |           |          |  |  |
|---|-------|---|-------|---------------------------------------|--|---------------------------------------|----------------|--------------------|----------------|--------------------------------|---------------------|--------------|------------------|-----------|----------|--|--|
| PROJECT NAME <b>Semi Annual Surface Water 1st Event</b> |       | PROJECT LOCATION <b>Lena Rd. Landfill</b> |       | TYPE: (WATER (SOIL (OTHER<br>BOD, TSS | REQUIRED ANALYSIS  |                                       |                |                    |                |                                | PAGE _____ OF _____ |              |                  |           |          |  |  |
| PROJECT NO.   |       | PURCHASE ORDER NO.                        |       |                                       | TDS, Nitrate   | NH <sub>3</sub> , TOC,<br>Total Phos. | Total Nitrogen | CU, FE, HG,<br>ZN, | Total Hardness | Fecal Coliform                 | Color               | Sheen        | FIELD PARAMETERS |           |          |  |  |
| PROJECT CONTACT <b>Jeff Goodwin</b>                     |       | PROJECT TEL. NO.                          |       |                                       |  |                                       |                |                    |                |                                |                     | SC (mmos/cm) | pH               | TEMP (°C) | D.O. NTU |  |  |
| SAMPLER NAME(S) <b>S. Helms</b>                         |       |   |       |                                       | NUMBER OF CONTAINERS / CONTAINER SIZE & TYPE / PRESERVATIVE<br>CONTAINER TYPES: (P)PLASTIC (G)GLASS (O)OTHER<br>PRESERVATIVES: (S)ODIUM HYDROXIDE (S <sub>2</sub> )LFURIC (N)ITRIC (H)YDROCLORIC (I)CED (O)OTHER |                                       |                |                    |                |                                |                     |              |                  |           |          |  |  |
| SAMPLING DATE   | TIME  | SAMPLE IDENTIFICATION                     |       |                                       | 1 P I  | 1 P I                                 | 1 P su         | 1 P N              | 1 P I          | Golden<br>orange<br>opalescent | 541                 | 6.93         | 18.18            | 7.90      | 10.8     |  |  |
| 2/18/03   | 14:49 | <i>Sw 1</i>                               |       |                                       | "  | "                                     | "              | "                  | "              |                                | 612                 | 6.73         | 21.91            | 4.30      | 75.2     |  |  |
|   | 13:58 | <i>Sw 2</i>                               |       |                                       | "  | "                                     | "              | "                  | "              |                                |                     |              |                  |           | -        |  |  |
|   |       | <i>Duplicate</i>                          |       |                                       | "  | "                                     | "              | "                  | "              |                                |                     |              |                  |           | -        |  |  |
|   |       |   |       |                                       |  |                                       |                |                    |                |                                |                     |              |                  |           |          |  |  |
| RELINQUISHED BY:  |       | DATE                                      | TIME  | RECEIVED BY:                          | RELINQUISHED BY:   |                                       |                |                    |                |                                | DATE                | TIME         | RECEIVED BY:     |           |          |  |  |
| <i>Manatee Co.</i>                                      |       | 2/18/03                                   | 15:53 | <i>Jeff Goodwin</i>                   |  |                                       |                |                    |                |                                |                     |              |                  |           |          |  |  |

FOR PELA LABORATORY USE ONLY

LABORATORY REMARKS

|                  |      |      |              |
|------------------|------|------|--------------|
| RECEIVED FOR LAB | DATE | TIME | WORK ORDER # |
|------------------|------|------|--------------|

**REPORTING ADDRESS:**  
ATTN: \_\_\_\_\_  
**CLIENT:** Manatee Co.  
**ADDRESS:** \_\_\_\_\_

**P.E. LaMoi & Associates  
4320 Old Highway 37  
Lakeland, Florida 33813  
(863) 646-8526**

INVOICING ADDRESS: **JUJU'S**  
ATTN: \_\_\_\_\_  
CLIENT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

## **CHAIN OF CUSTODY**

**FOR PELA LABORATORY USE ONLY**

**LABORATORY REMARKS**

RECEIVED FOR LAB

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**REPORTING ADDRESS:**

ATT

**CLIENT:** Manatee Co.

**ADDRESS:**

**P.E. LaMori & Associates  
4320 Old Highway 37  
Lakeland, Florida 33813  
(863) 646-8526**

**INVOICING ADDRESS:**

ATR

CLIENT

**ADDRESS:**

# **CHAIN OF CUSTODY**

No. 0598

**FOR PELA LABORATORY USE ONLY**

**LABORATORY REMARKS**

**RECEIVED FOR LAB**

**DATE**      **TIME**

WORKORDER

**SECTION I of 1**