

MANATEE COUNTY GOVERNMENT

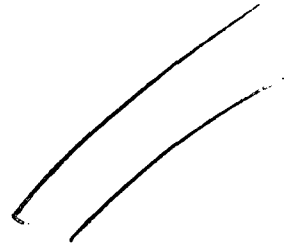
Public Works Department

RECEIVED
JUL 18 1995

Depa. Environmental Protection
BY SOUTHWEST DISTRICT

July 13, 1995

Allison Amram, P.G.
Division of Waste Management
Department of Environmental Protection, South West District
3804 Coconut Palm Drive
Tampa, FL 33619



Re: Manatee County Solid Waste Management Facility
Lena Road Landfill
Permit No. SO41-211176

404/C02025
44795

Dear Ms. Amram:

Enclosed please find the leachate laboratory analytical data for the report period of January through June, 1995.

Please note that parameters listed in 40 CFR Part 258, Appendix I, per Specific Condition No. 31 of the referenced permit have been omitted. These parameters will be sampled for during the week of July 17, 1995. The samples will be a rush order to our laboratory and it is anticipated that they will be in your office no later than July 31, 1995.

We apologize for any inconvenience this may cause you. If you require further information regarding this matter, please contact this office at 941/748-5543.

Sincerely,

Benjamin L. Alex

Benjamin L. Alex
Solid Waste Technical Coordinator

bla

cc: Robert Butera, P.E., FDEP
Kim Ford, P.E., FDEP
Lenox E. "Len" Bramble, Public Services Director
Daniel T. Gray, Utilities Operations Manager
Gus DiFonzo, Solid Waste Manager





REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 813/646-8526

FAX 813/646-1042

CERTIFICATE OF ANALYSIS SAMPLE SUMMARY

SENT TO: MANATEE CO SOLID WASTE
ATTN: GWEN PAGINGTON
P.O. BOX 25010
BRADENTON, FLORIDA 34201
813-792-8788

ANALYZED BY: P.E. LaMoreaux & Associates, Inc.
4320 OLD HIGHWAY 37
LAKELAND, FLORIDA 33813

PHONE: (813) 646-8526
FAX: (813) 646-1042

PROJECT NO. :
PELA CONTACT :
WORK ORDER NO. : 950402164

RECEIVED DATE : 04/06/95
REPORTED DATE : 04/24/95

STATE OF FLORIDA CERTIFICATIONS: E84098-ENVIRONMENTAL, #84183-DRINKING WATER

LAB ID #	SAMPLE DESCRIPTION	SAMPLE SITE	COLLECTION	
			DATE	TIME
JF03660	LENA LEACHATE	LENA LANDFILL	04/06/95	09:30

APR 28 1995
SOLID WASTE

SENIOR CHEMIST

Amal Mustafa

LABORATORY DIRECTOR

Thank you for giving PELA the opportunity to be of service.
If you need any additional information, please call.

CERTIFICATIONS: State of FL #84183/E84098 State of AL #40120 State of KY #90013 State of TN #02958 State of SC #96022

METHODS: Standard Methods for the Examination of Water and Wastewater, Latest Edition, APHA, AWWA, and WEF and/or other EPA-approved methods which meet FDER or other state protocol, unless otherwise designated.



REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 813/646-8528

FAX 813/646-1042

To: MANATEE CO SOLID WASTE
ATTN: GWEN PAGINGTON
P.O. BOX 25010
BRADENTON, FLORIDA 34201
813-792-8788

Date Received: 04/06/95
Date Collected: 04/06/95
Sample Site: LENA LANDFILL

Project No:
Work Order No: 950402164

D 3474

Group Sample/Analysis Report

Lab. Sample ID. JF03660

Analyte	Units	MDL	Result	Date Started	Time Started	End Date
TOTAL AMMONIA AS N	mg/L	0.01	24.6	04/07/95	12:57	04/07/95
BICARBONATE ALKALINITY AS HCO3	mg/L	1	581	04/13/95	08:15	04/13/95

PUBLIC DRINKING WATER ANALYSIS REPORTING FORMAT

PUBLIC WATER SYSTEM INFORMATION (to be completed by system or lab)

System Name: _____ I.D. #: -0-
Address: _____ Phone #: _____
Type (check one): () Community () Nontransient Noncommunity () Noncommunity

SAMPLE INFORMATION (to be completed by sampler)

Sample Date(MMDDYY): 04/06/95 Sample Time: 09:30
Sample Location (be specific): LENA LEACHATE
Sampler Name: D. ELLIOTT Phone #: _____
Sampler Signature: _____ Title: _____

Check Type(s): () Distribution () Recheck of MCL () Resample of Lab Invalidated Sample
() Clearance () Thm Max Res Time () Plant Tap
() Distrib entry pt () Raw () Composite-Attach a format for each site

LABORATORY CERTIFICATION INFORMATION (to be completed by lab) -- ATTACH HRS ANALYTE SHEET

Lab Name: P. E. LaMoreaux & Associated, Inc. HRS #: 84183, E84098
Address: 4320 Old Highway 37 Expiration Date: 6/30/95
Lakeland, Florida 33813 Phone #: 813 646-8526

Subcontracted Lab HRS #: #83170 -- ATTACH HRS ANALYTE SHEET FOR SUBCONTRACTED LAB

ANALYSIS INFORMATION (to be completed by lab) -- SAMPLE NUMBER: JF03660

Date Received:04/06/95 Group(s) Analyzed & Results attached for compliance with 62-550,F.A.C.:
(X)Nitrate Only (X)Nitrite Only ()Asbestos Only ()Trihalomethanes
Inorganics- Volatile Organics- Secondaries- Pesticides & PCBs-
()All 17 (X)Partial ()All 21 ()Partial (X)All 14 ()Partial ()All 30 ()Partial
Group I Unregulateds- Group II Unregulateds- Group III Unregulateds- Radiochemicals-
()All 13 ()Partial ()All 23 ()Partial ()All 11 ()Partial (X)Single Sample
()Qtrly Composite

I, AMAL MOSTAFA, do HEREBY CERTIFY that all attached analytical data are correct.

Signature : Amal Mostafa Title: Laboratory Director Date: 04/24/95
Name: Amal Mostafa

COMPLIANCE INFORMATION(to be completed by State)

Sample Collection Satisfactory: _____ Sample Analysis Satisfactory: _____
Resample Requested for: _____ Reason: _____
Person notified to resample: _____ Date Notified: _____
DER/ACPHU Reviewing Official: _____

TURBIDITY ANALYSIS
62-550.310(3)
(PWS026)

Parameter ID NAME	Sample Number	Analysis Result NTU	Analytical Method	Det. Limit Used	Analysis Date/Time
0100 TURBIDITY	JF03660	9.6	EPA 180.1	0.10	04/07/95

INORGANIC ANALYSIS
62-550.310(1)
(PWS030)

Parameter ID	NAME (MCL mg/l)	Sample Number	Analysis Result mg/L	Analytical Method	Det. Limit Used	Analysis Date/Time
1005	ARSENIC (.05)	JF03660	0.005	EPA 206.2	0.001	04/13/95
1010	BARIUM (2)	JF03660	BDL	EPA 200.7	0.1	04/11/95
1015	CADMIUM (.005)	JF03660	BDL	EPA 200.7	0.005	04/11/95
1020	CHROMIUM (0.01)	JF03660	BDL	EPA 200.7	0.04	04/11/95
1024	CYANIDE (0.2)	JF03660	BDL	4500_CNE	0.005	04/10/95
1025	FLUORIDE (4)	JF03660	0.49	4500_FC	0.01	04/11/95
1030	LEAD (0.015)	JF03660	0.003	EPA 239.2	0.001	04/11/95
1035	MERCURY (0.002)	JF03660	BDL	EPA 245.1	0.0001	04/18/95
1036	NICKEL (0.1)	JF03660	BDL	EPA 200.7	0.02	04/11/95
1040	NITRATE (10)	JF03660	BDL	EPA 353.2	0.05	04/07/95
1041	NITRITE (1)	JF03660	1.32	EPA 353.2	0.05	04/07/95 17:02
1045	SELENIUM (0.05)	JF03660	BDL	EPA 270.2	0.002	04/13/95
1052	SODIUM (160)	JF03660	123	EPA 200.7	0.01	04/14/95
1074	ANTIMONY (0.006)	JF03660	BDL	EPA 204.2	0.005	04/14/95
1075	BERYLLIUM (0.004)	JF03660	BDL	EPA 210.2	0.003	04/19/95
1085	THALLIUM (0.002)	JF03660	BDL	EPA 279.2	0.001	04/14/95

SECONDARY CHEMICAL ANALYSIS
62-550.320
(PWS031)

Parameter ID	NAME (MCL mg/l)	Sample Number	Analysis Result mg/L	Analytical Method	Det. Limit Used	Analysis Date/Time
1002	ALUMINUM (0.2)	JF03660	BDL	EPA 200.7	0.1	04/11/95
1017	CHLORIDE (250)	JF03660	168	EPA 325.2	1.0	04/13/95
1022	COPPER (1)	JF03660	BDL	EPA 200.7	0.02	04/11/95
1025	FLUORIDE (2.0)	JF03660	0.49	4500_FC	0.01	04/11/95
1028	IRON (0.3)	JF03660	2.19	EPA 200.7	0.02	04/11/95
1032	MANGANESE (0.05)	JF03660	0.06	EPA 200.7	0.01	04/14/95
1050	SILVER (0.1)	JF03660	BDL	EPA 200.7	0.005	04/11/95
1055	SULFATE (250)	JF03660	42	EPA 375.4	1	04/14/95
1095	ZINC (5)	JF03660	0.031	EPA 200.7	0.005	04/11/95
1905	COLOR (15 COLOR UNITS)	JF03660	200	EPA 110.2	5	04/07/95 14:00
1920	ODOR (3 THRESHOLD ODOR NO.)	JF03660	2	EPA 140.1	1	04/07/95 14:00
1925	PH (6.5 - 8.5)	JF03660	8.00	EPA 150.1	0.10	04/07/95 09:00
1930	TDS (500)	JF03660	915	EPA 160.1	1	04/10/95
2905	FOAMING AGENTS (0.5)	JF03660	BDL	5540 C	0.005	04/07/95

MANATEE CO SOLID WASTE

RADIOCHEMICAL ANALYSIS

62-550.310(5)

(PWS033)

Parameter ID NAME	Sample Number	Analysis Result pci/L	Analytical Method	Det. Limit Used	Analysis Date/Time
4000 GROSS ALPHA	JF03660	4.2+/-2.1	EPA 900.0	3	04/18/95

MANATEE CO SOLID WASTE

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SOLID WASTE

LENA ROAD LEACHATE ANALYSIS

April 27, 1995

RECEIVED
MAY 1 - 1995
SOLID WASTE

Manatee County Public Works
Central Laboratory

Lena Road Leachate Analysis Date Sampled 04/06/95

Field Parameters:

pH	7.7	S.U.
Conductance	1025	umho
Temperature	22.8	Degrees C
D.O.	3.3	mg/L

3474

Laboratory Parameters:

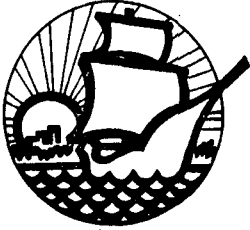
Inorganic Parameters:

Turbidity	9.6	NTU
Cyanide	BDL	mg/L
Chloride	168	mg/L
Fluoride	0.49	mg/L
Sulfate	42.0	mg/L
Nitrate	BDL	mg/L
Nitrite	1.32	mg/L
Color	200	
Odor	2	3 threshold odor No.
pH	8.00	S.U.
TDS	915	mg/L
Foaming Agents	BDL	mg/L
Gross Alpha	4.2+/-2.1	pci/L
Total Ammonia as N	24.6	mg/L
Bicarbonate Alkalinity as HCO	581	mg/L

Metals:

Arsenic✓	0.005	mg/L
Barium✓	BDL	mg/L
Cadmium✓	BDL	mg/L
Chromium✓	BDL	mg/L
Lead✓	0.003	mg/L
Mercury	BDL	mg/L
Nickel✓	BDL	mg/L
Selenium✓	BDL	mg/L
Sodium	123	mg/L
Antimony✓	BDL	mg/L
Beryllium✓	BDL	mg/L
Thallium✓	BDL	mg/L
Aluminum✓	BDL	mg/L
Copper✓	BDL	mg/L
Iron	2.19	mg/L
Manganese	0.06	mg/L
Silver✓	BDL	mg/L
Zinc ✓	0.031	mg/L

BDL=Below Detection Limit



**MANATEE COUNTY
GOVERNMENT
Public Works Department**

July 31, 1995

Allison Amram, P.G.
Division of Waste Management
Department of Environmental Protection, South West District
3804 Coconut Palm Drive
Tampa, FL 33619

Re: Manatee County Solid Waste Management Facility
Lena Road Landfill
Permit No. S041-211176

404/C 02025

Dear Ms. Amram:

As indicated in our July 13, 1995 correspondence, enclosed please find the Lena leachate sample analysis for the Organic Constituents listed in 40 CFR, Part 258, Appendix I for the January through June, 1995 report period. Please note that the results of all sampled parameters were below the maximum contaminant level (MCL).

We believe this report, coupled with the report submitted on July 13, 1995 completes the requirements of the above referenced Permit, Specific Condition No. 31 for the first half of 1995. During the second half of 1995, we will sample for the parameters listed in both Appendix I and II as indicated in the Permit.

If you require further information or need assistance regarding this matter, please contact me at (941) 748-5543.

Sincerely,

Benjamin L. Alex
Solid Waste Technical Coordinator

bla

cc: Chongman Lee, FDEP Tallahassee
Lenox E. "Len" Bramble, Public Services Director
Daniel T. Gray, Utilities Operations Manager
Gus DiFonzo, Solid Waste Manager

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AUG 04 1995

Solid Waste Section





REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.
 Geochemistry Laboratory
 4320 Old Highway 37, Lakeland, Florida 33813 PHONE 813/646-8526 FAX 813/646-1042

CERTIFICATE OF ANALYSIS SAMPLE SUMMARY

SENT TO: MANATEE CO PUBLIC WORKS DEPT.
 ATTN: KEVIN ROSS
 5101 65th STREET WEST
 BRADENTON, FLORIDA 34101
 813-792-8788

ANALYZED BY: P.E. LaMoreaux & Associates, Inc.
 4320 OLD HIGHWAY 37
 LAKELAND, FLORIDA 33813
 PHONE: (813) 646-8526
 FAX: (813) 646-1042

PROJECT NO. :
 PELA CONTACT :
 WORK ORDER NO. : 950704418

RECEIVED DATE : 07/19/95
 REPORTED DATE : 07/28/95

STATE OF FLORIDA CERTIFICATIONS: E84098-ENVIRONMENTAL, #84183-DRINKING WATER

LAB ID #	SAMPLE DESCRIPTION	SAMPLE SITE	COLLECTION	
			DATE	TIME
JF08660	LENA LEACHATE	LENA LANDFILL	07/18/95	09:45

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AUG 04 1995

Solid Waste Section


 SENIOR CHEMIST


 LABORATORY DIRECTOR

Thank you for giving PELA the opportunity to be of service.
 If you need any additional information, please call.



REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 813/846-8526

FAX 813/846-1042

CLIENT INFORMATION

Client : MANATEE CO PUBLIC WORKS DEPT.
5101 65th STREET WEST
BRADENTON, FLORIDA 34101

Attention : ATTN: KEVIN ROSS

BILLING INFORMATION

Bill to : MANATEE CO PUBLIC WORKS DEPT.
ATTN: FINANCE DEPARTMENT
P O BOX 1000
BRADENTON, FLORIDA 34206

Purchase Order No. : 20731

SAMPLE INFORMATION

PELA Laboratory No. : JF08660
Sample Identification : LENA LEACHATE
Sample site : LENA LANDFILL
Sample Type : WATER
Sample Designators :

SAMPLE COLLECTION INFORMATION

Collection Date : 07/18/95
Collection Time : 09:45
Collected by : CLIENT
Date Received at Lab : 07/19/95
Time Received at Lab : 10:13

FIELD PARAMETERS

COMMENTS

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Solid Waste Section



REPORT OF ANALYSIS

P.E. LaMoresaux and Associates, Inc.
 Geochemistry Laboratory
 4320 Old Highway 37, Lakeland, Florida 33813 PHONE 813/646-8526 FAX 813/646-1042

Client Name : MANATEE CO PUBLIC WORKS DEPT.
 Identification: LENA LEACHATE
 Site : LENA LANDFILL
 Type : WATER

PELA LAB NUMBER: JF08660
 COLLECTION DATE: 07/18/95
 COLLECTION TIME: 09:45

orig 3474

PARAMETER	RESULTS	DETECTION LIMITS	UNITS	ANALYST	DATE FINISHED
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ORGANICS

APPENDIX I VOLATILES (EPA 8260)

1,1,1,2-TETRACHLOROETHANE	BDL	0.1	ug/L	HMM	07/27/95
STYRENE	BDL	1.0	ug/L	HMM	07/27/95
1,2,3-TRICHLOROPROPANE	BDL	0.3	ug/L	HMM	07/27/95
T-1,4-DICHLORO-2-BUTENE	BDL	10.0	ug/L	HMM	07/27/95
1,2-DIBROMO-3-CHLOROPROPANE	BDL	0.5	ug/L	HMM	07/27/95
IODOMETHANE	BDL	0.5	ug/L	HMM	07/27/95
ACETONE	BDL	2.5	ug/L	HMM	07/27/95
CARBON DISULFIDE	BDL	5.0	ug/L	HMM	07/27/95
VINYL ACETATE	BDL	10.0	ug/L	HMM	07/27/95
2-BUTANONE	BDL	5.0	ug/L	HMM	07/27/95
BROMOCHLOROMETHANE	BDL	0.5	ug/L	HMM	07/27/95
CIS 1,2-DICHLOROETHENE	BDL	0.1	ug/L	HMM	07/27/95
DIBROMOMETHANE	BDL	0.3	ug/L	HMM	07/27/95
4-METHYL-2-PENTANONE	BDL	5.0	ug/L	HMM	07/27/95
2-HEXANONE	BDL	5.0	ug/L	HMM	07/27/95
1,2-DIBROMOETHANE	BDL	0.5	ug/L	HMM	07/27/95
CHLOROMETHANE	BDL	0.13	ug/L	HMM	07/27/95
VINYL CHLORIDE	BDL	0.17	ug/L	HMM	07/27/95
BROMOMETHANE	BDL	0.11	ug/L	HMM	07/27/95
CHLOROETHANE	BDL	0.10	ug/L	HMM	07/27/95
TRICHLOROFLUOROMETHANE	BDL	0.08	ug/L	HMM	07/27/95
1,1-DICHLOROETHENE	BDL	0.12	ug/L	HMM	07/27/95
DICHLOROMETHANE	BDL	0.03	ug/L	HMM	07/27/95
TRANS-1,2-DICHLOROETHENE	BDL	0.06	ug/L	HMM	07/27/95
ACRYLONITRILE	BDL	1.50	ug/L	HMM	07/27/95
1,1-DICHLOROETHANE	BDL	0.04	ug/L	HMM	07/27/95
TRICHLOROMETHANE	BDL	0.03	ug/L	HMM	07/27/95
1,1,1-TRICHLOROETHANE	BDL	0.08	ug/L	HMM	07/27/95
1,2-DICHLOROETHANE	BDL	0.06	ug/L	HMM	07/27/95
BENZENE	BDL	0.04	ug/L	HMM	07/27/95
CARBON TETRACHLORIDE	BDL	0.21	ug/L	HMM	07/27/95
1,2-DICHLOROPROPANE	BDL	0.04	ug/L	HMM	07/27/95
TRICHLOROETHENE	BDL	0.19	ug/L	HMM	07/27/95
BROMODICHLOROMETHANE	BDL	0.08	ug/L	HMM	07/27/95
CIS-1,3-DICHLOROPROPENE	BDL	0.05	ug/L	HMM	07/27/95
TOLUENE	BDL	0.11	ug/L	HMM	07/27/95
TRANS-1,3-DICHLOROPROPENE	BDL	0.04	ug/L	HMM	07/27/95
1,1,2-TRICHLOROETHANE	BDL	0.10	ug/L	HMM	07/27/95

RECEIVED
 AUG 04 1995

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS, WHICH MAY VARY WITH MATRIX AND CONCENTRATION. BDL - BELOW DETECTION LIMIT.



REPORT OF ANALYSIS

P.E. LaMoreaux and Associates, Inc.

Geochemistry Laboratory

4320 Old Highway 37, Lakeland, Florida 33813

PHONE 813/848-8528

FAX 813/848-1042

Client Name : MANATEE CO PUBLIC WORKS DEPT.
 Identification: LENA LEACHATE
 Site : LENA LANDFILL
 Type : WATER

PELA LAB NUMBER: JF08660
 COLLECTION DATE: 07/18/95
 COLLECTION TIME: 09:45

PARAMETER	RESULTS	DETECTION LIMITS	UNITS	ANALYST	DATE FINISHED
DIBROMOCHLOROMETHANE	BDL	0.05	ug/L	HMM	07/27/95
TETRACHLOROETHENE	BDL	0.14	ug/L	HMM	07/27/95
CHLOROBENZENE	BDL	0.04	ug/L	HMM	07/27/95
ETHYLBENZENE	BDL	0.06	ug/L	HMM	07/27/95
M, P-XYLENES	BDL	0.11	ug/L	HMM	07/27/95
TRIBROMOMETHANE	BDL	0.12	ug/L	HMM	07/27/95
O-XYLENE	BDL	0.11	ug/L	HMM	07/27/95
1,1,2,2-TETRACHLOROETHANE	BDL	0.04	ug/L	HMM	07/27/95
1,3-DICHLOROBENZENE	BDL	0.12	ug/L	HMM	07/27/95
1,4-DICHLOROBENZENE	BDL	0.03	ug/L	HMM	07/27/95
1,2-DICHLOROBENZENE	BDL	0.03	ug/L	HMM	07/27/95

DETECTION LIMITS REPORTED ARE METHOD DETECTION LIMITS WHICH MAY VARY WITH MATRIX AND CONCENTRATION. BDL - BELOW DETECTION LIMIT.