



**MANATEE COUNTY  
GOVERNMENT**  
Public Works Department

D.E.R.

January 14, 1993

JAN 19 1993

SOUTHWEST DISTRICT T

Mr. Steve Morgan  
Environmental Specialist II  
Florida Department of Environmental Regulation  
Southwest District Office-Solid Waste Section  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347

Re: Lena Road Landfill: Permit No. S041-118353  
Fourth Quarter Monitoring Report-1992

Dear Mr. Morgan:

Enclosed for your review is the fourth quarter Groundwater Monitoring Report for 1992 pursuant to the above referenced permit number. Pertinent pH, daily rainfall and landfill tonnage records are also enclosed.

There were no stormwater discharges during this period.

Please contact me if I can provide any clarification to this data as submitted.

Sincerely,

Gregory F. Yekaitis  
Solid Waste Technical Coordinator

GFY/sks

Enclosures

cc: Chongman Lee, FDER, Tallahassee  
Richard A. Wilford, Director, MCPWD  
Charles Hunsicker, Assistant Director, MCPWD  
Karen Collins, Director, Environmental Action Commission  
John Harlee, Esquire  
Roger Hill, Schroeder-Manatee Ranch  
Al Korgi, USEPA, Region IV, Water Management District  
Daniel Gray, Deputy Director of Operations, MCPWD  
Gus DiFonzo, Solid Waste Division Manager, MCPWD

ADMINISTRATION • 4501 - 66th Street West, Bradenton, Florida 34210 • (813) 792-8811 • FAX (813) 795-3490





MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

COLLECTED: December 2, 3, 8, 9, 15, 1992

COLLECTED BY: D. Elliott

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PUBLIC WORKS  
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①  
To - Hwy

LABORATORY PARAMETERS \*\*

LOCATION	DATE	ID No.	pH (S.U.)	COND. (umho/cm)	TURB. (NTU)	NITRITE as N (mg/l)	NITRATE as N (mg/l)	TKN (mg/l)	CHLORIDE (mg/l)	TDS (mg/l)	TRUE COLOR (C.U.)	SULFATE (mg/l)	TOC (mg/l)	BICARBONATE ALKALINITY (mgCaCO3/l)
MW 1	02-Dec-92	20479	5.1	131	9.0	<0.01	<0.01	2.3	14.8	133	60	14.4	11.2	17.2
MW 3	02-Dec-92	20479	5.5	622	6.0	<0.01	<0.01	1.1	139	395	100	98.9	14.3	20.0
MW 5	02-Dec-92	20479	6.6	651	130	0.02	<0.01	8.1	60.3	408	140	16.5	60.0 *	168
CW 4	02-Dec-92	20479	6.5	1180	23	<0.01	<0.01	1.6	269	899	60	159	18.6	259
CW 5	02-Dec-92	20479	6.0	337	800	<0.01	0.85	2.6	161	267	30	471	15.2	46
GC 3	03-Dec-92	20480	6.6	512	30	0.02	<0.01	1.0	32.5	294	180	34.4	7.5	176
GC 4	03-Dec-92	20480	6.7	492	70	<0.01	<0.01	1.1	30.2	287	120	45.4	9.2	150
GC 5	03-Dec-92	20480	6.5	477	12	<0.01	<0.01	1.3	26.1	297	100	28.9	21.6	189
GC 6	03-Dec-92	20480	5.9	232	14	<0.01	<0.01	2.7	19.9	157	100	45.3	11.8	18.8
MW 2	03-Dec-92	20480	5.7	261	11	<0.01	<0.01	1.6	34.3	168	70	46.3	16.7	12.4
SA 2	08-Dec-92	20481	7.2	519	0.55	<0.01	0.14	0.7	31.8	344	30	17.5	11.8	232
SA 3	08-Dec-92	20481	7.2	633	6.6	<0.01	<0.01	0.7	29.2	416	60	48.4	11.2	268
SA 4	08-Dec-92	20481	7.4	691	0.05	<0.01	<0.01	1.3	64.2	436	20	59.4	8.6	197
GC 1	08-Dec-92	20481	6.2	1050	150	<0.01	<0.01	0.8	136	723	300	4.42	22.9	349
GC 2	08-Dec-92	20481	6.1	527	140	<0.01	<0.01	1.5	49.2	346	600	58.8	16.4	139
MW 6	08-Dec-92	20481	5.5	220	8.0	<0.01	<0.01	1.4	24.8	166	70	42.2	15.6	16.8
SA 5	09-Dec-92	20482	7.5	652	0.10	<0.01	<0.01	0.7	71.6	407	30	34.0	8.1	197
SA 6	09-Dec-92	20482	11.2	877	15	0.02	<0.01	1.7	50.0	447	20	152	5.9	118
SA 7	09-Dec-92	20482	10.7	497	0.1	<0.01	<0.01	1.0	53.6	192	10	8.64	4.9	64.8
LR II-1	09-Dec-92	20482	6.2	492	130	<0.01	<0.01	1.3	27.8	330	60	114	14.2	198
LR II-2	09-Dec-92	20482	6.0	175	3.4	<0.01	<0.01	1.2	8.06	89	20	6.74	3.4	31.2
LR II-3	09-Dec-92	20482	5.0	10.2	0.4	<0.01	<0.01	0.8	8.5	56	20	16.1	2.3	7.8
SA 8	15-Dec-92	20483	10.7	449	5.5	<0.01	0.04	1.0	50.0	203	10	8.93	4.0	79.8
LR II-4	15-Dec-92	20483	6.5	382	20	<0.01	<0.01	0.9	8.10	203	60	9.85	2.9	170
LR II-5	15-Dec-92	20483	6.7	321	13	<0.01	<0.01	1.3	8.13	197	70	3.19	9.2	146
SMR 1	15-Dec-92	20483	5.6	108	1.8	<0.01	<0.01	2.4	22.9	171	140	32.3	20.5	32.5
SMR 2	15-Dec-92	20483	7.7	644	1.6	<0.01	0.05	1.3	93.3	394	10	4.23	3.6	175

NOTES \* Results varified after reanalysis at 1:2 dilution  
\*\* All results for Fecal Coliform were <1 /100mL unless otherwise specified

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

DATES COLLECTED: December 2, 3, 8, 9, 15, 1992

COLLECTED BY: D. Elliott

ANALYTICAL RESULTS FROM CONTRACT LABORATORY \*

LOCATION	DATE	ID No.	ODOR (T.O.N.)	SURFACTANTS ( MBAS ) (mg/L)
MW 1	02-Dec-92	20479	4	<0.005
MW 3	02-Dec-92	20479	2	<0.005
MW 5	02-Dec-92	20479	4	<0.005
CW 4	02-Dec-92	20479	1	<0.005
CW 5	02-Dec-92	20479	2	<0.005
GC 3	03-Dec-92	20480	2	<0.005
GC 4	03-Dec-92	20480	1	<0.005
GC 5	03-Dec-92	20480	4	<0.005
GC 6	03-Dec-92	20480	4	<0.005
MW 2	03-Dec-92	20480	8	<0.005
SA 2	08-Dec-92	20481	2	<0.005
SA 3	08-Dec-92	20481	2	<0.005
SA 4	08-Dec-92	20481	4	<0.005
GC 1	08-Dec-92	20481	8	<0.005
GC 2	08-Dec-92	20481	1	<0.005
MW 6	08-Dec-92	20481	2	<0.005
SA 5	09-Dec-92	20482	2	<0.005
SA 6	09-Dec-92	20482	1	<0.005
SA 7	09-Dec-92	20482	2	<0.005
LRII-1	09-Dec-92	20482	1	<0.005
LRII-2	09-Dec-92	20482	2	<0.005
LRII-3	09-Dec-92	20482	2	<0.005
SA 8	15-Dec-92	20483	2	<0.005
LRII-4	15-Dec-92	20483	2	<0.005
LRII-5	15-Dec-92	20483	1	<0.005
SMR 1	15-Dec-92	20483	2	<0.005
SMR 2	15-Dec-92	20483	2	<0.005

\* Analyses performed at P.E.LaMoreaux & Associates (HRS. E84089)

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

COLLECTED: December 2, 3, 8, 9, 15, 1992

COLLECTED BY: D. Elliott

LABORATORY METALS ANALYSES

LOCATION	DATE	ID No.	Chromium (mg/l)	Iron as N (mg/l)	Copper as N (mg/l)	Manganese (mg/l)	Mercury* (mg/l)	Lead (mg/l)	Zinc (mg/l)	Sodium (mg/l)
MW 1	02-Dec-92	20479	<0.040	3.98	<0.020	<0.050	<0.0001	<0.050	<0.100	10.3
MW 3	02-Dec-92	20479	<0.040	13.4	<0.020	<0.050	<0.0001	<0.050	<0.100	61.8
MW 5	02-Dec-92	20479	<0.040	4.61	<0.020	<0.050	<0.0001	<0.050	<0.100	37.8
CW 4	02-Dec-92	20479	<0.040	4.17	<0.020	<0.050	<0.0001	<0.050	<0.100	50.5
CW 5	02-Dec-92	20479	<0.040	6.52	<0.020	<0.050	0.0002	<0.050	<0.100	18.9
GC 3	03-Dec-92	20480	<0.040	5.91	<0.020	<0.050	<0.0001	<0.050	<0.100	21.6
GC 4	03-Dec-92	20480	<0.040	17.1	<0.020	<0.050	<0.0001	<0.050	<0.100	21.3
GC 5	03-Dec-92	20480	<0.040	5.12	<0.020	<0.050	<0.0001	<0.050	<0.100	13.7
GC 6	03-Dec-92	20480	<0.040	4.11	<0.020	<0.050	<0.0001	<0.050	<0.100	6.82
MW 2	03-Dec-92	20480	<0.040	2.69	<0.020	<0.050	<0.0001	<0.050	<0.100	27.0
SA 2	08-Dec-92	20481	<0.040	0.121	<0.020	<0.050	<0.0001	<0.050	<0.100	35.7
SA 3	08-Dec-92	20481	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	36.2
SA 4	08-Dec-92	20481	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	62.6
GC 1	08-Dec-92	20481	<0.040	19.8	<0.020	0.093	<0.0001	<0.050	<0.100	52.1
GC 2	08-Dec-92	20481	<0.040	30.7	<0.020	<0.050	<0.0001	<0.050	<0.100	26.0
MW 6	08-Dec-92	20481	<0.040	9.10	<0.020	<0.050	<0.0001	<0.050	<0.100	14.4
SA 5	09-Dec-92	20482	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	54.0
SA 6	09-Dec-92	20482	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	37.2
SA 7	09-Dec-92	20482	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	37.7
LRII-1	09-Dec-92	20482	<0.040	23.3	<0.020	0.068	<0.0001	<0.050	<0.100	25.5
LRII-2	09-Dec-92	20482	<0.040	3.68	<0.020	<0.050	<0.0001	<0.050	<0.100	5.07
LRII-3	09-Dec-92	20482	<0.040	1.97	<0.020	<0.050	<0.0001	<0.050	<0.100	9.36
SA 8	15-Dec-92	20483	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	39.4
LRII-4	15-Dec-92	20483	<0.040	3.17	<0.020	<0.050	<0.0001	<0.050	<0.100	9.79
LRII-5	15-Dec-92	20483	<0.040	2.42	<0.020	<0.050	0.0001	<0.050	<0.100	10.3
SMR 1	15-Dec-92	20483	<0.040	8.39	<0.020	<0.050	0.0003	<0.050	<0.100	22.7
SMR 2	15-Dec-92	20483	<0.040	<0.010	<0.020	<0.050	<0.0001	<0.050	<0.100	60.2

NOTES \* Mercury analyses performed at P.E.LaMoreaux & Associates (HRS E84098)

MANATEE COUNTY PUBLIC WORKS

CENTRAL LABORATORY (HRS No. E54139)

PROJECT: LENA ROAD LANDFILL

DATES COLLECTED: December 2, 3, 8, 9, 15, 1992

COLLECTED BY: D. Elliott

FIELD PARAMETERS

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LOCATION	DATE	ID No.	pH *	COND.	TEMP.	TOTAL DEPTH (ft)	SAMPLE DEPTH (ft)	ELEVATION (ft)	NGVD (ft)
			(S.U.)	(umho/cm)	(deg C)				
MW 1	02-Dec-92	20479	N/A	135	24.0	14.5	7.88	38.93	31.05
MW 3	02-Dec-92	20479	N/A	700	22.5	13.37	8.04	39.77	31.73
MW 5	02-Dec-92	20479	N/A	600	25.0	21.4	8.54	N/A	N/A
CW 4	02-Dec-92	20479	N/A	1225	23.0	17.94	14.30	37.54	23.24
CW 5	02-Dec-92	20479	N/A	275	23.0	18.40	12.21	42.00	29.79
GC 3	03-Dec-92	20480	N/A	440	24.0	22.58	5.10	35.08	29.98
GC 4	03-Dec-92	20480	N/A	445	23.0	22.18	6.40	33.98	27.58
GC 5	03-Dec-92	20480	N/A	460	25.0	22.02	8.08	36.52	28.44
GC 6	03-Dec-92	20480	N/A	215	25.0	22.40	6.75	39.10	32.35
MW 2	03-Dec-92	20480	N/A	255	22.0	13.97	5.45	39.77	34.32
SA 2	08-Dec-92	20481	N/A	480	23.5	154.93	15.40	37.97	22.57
SA 3	08-Dec-92	20481	N/A	700	23.0	163.02	16.70	35.12	18.42
SA 4	08-Dec-92	20481	N/A	725	23.0	143.78	13.20	31.28	18.08
GC 1	08-Dec-92	20481	N/A	1050	23.0	23.76	4.79	31.36	26.57
GC 2	08-Dec-92	20481	N/A	495	24.0	18.03	6.27	38.23	31.96
MW 6	08-Dec-92	20481	N/A	210	25.0	20.72	6.00	39.32	33.32
SA 5	09-Dec-92	20482	N/A	775	22.0	153.02	17.60	37.92	20.32
SA 6	09-Dec-92	20482	N/A	1050	23.0	153.04	15.90	36.04	20.14
SA 7	09-Dec-92	20482	N/A	405	23.5	152.97	17.10	33.27	16.17
LRII-1	09-Dec-92	20482	N/A	650	22.0	21.12	6.02	38.02	32.00
LRII-2	09-Dec-92	20482	N/A	150	24.0	22.83	6.50	36.53	30.03
LRII-3	09-Dec-92	20482	N/A	1100	23.5	22.81	7.26	33.51	26.25
SA 8	15-Dec-92	20483	N/A	340	22.5	153.35	17.35	34.48	17.13
LRII-4	15-Dec-92	20483	N/A	440	23.5	22.50	6.88	33.90	27.02
LRII-5	15-Dec-92	20483	N/A	290	23.5	22.78	6.08	36.78	30.70
SMR 1	15-Dec-92	20483	N/A	220	23.0	22.88	5.92	36.48	30.56
SMR 2	15-Dec-92	20483	N/A	750	23.5	150.00	17.63	36.10	18.47

NOTES \* Field pH meter returned to manufacturer for repair

LENA LANDFILL  
PIEZOMETER WATER TABLES  
MEASURED OCTOBER 1, 1992

PIEZOMETER NUMBER	WATER TABLE; FT. (FROM TOP PVC PIPE)	N.G.V.D. FT.
STAGE 3		
PZ 17	11.46	29.36
PZ 16	6.12	28.51
PZ 15	5.19	28.01
PZ 14	6.50	26.97
PZ 13	7.27	27.82
PZ 12	9.00	29.39
STAGE 1		
PZ 7	14.63	30.06
PZ 6	12.58	31.75
PZ 5	13.21	30.50
PZ 4	14.79	30.25
PZ 3	11.75	33.18
PZ 2	12.25	30.28
PZ 1	11.92	29.60
STAGE 2		
PZ 11	8.44	N/A
PZ 10	7.71	N/A
PZ 9	7.08	N/A
PZ 8	8.13	N/A

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