

HARDEE COUNTY

Department of Solid Waste & Recycling Center

P.O. Box 246
Wauchula, Florida 33873

40612

RECEIVED
MAY 19 1994
EA. SOLID WASTE

5025-214306

May 16, 1994

Department of Environmental Protections
Allison Amram, Environmental Specialist III
Waste Management Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

4025C3000/

RE: Quarterly Water Analysis

Dear Ms. Amram:

In our first quarterly water analysis for 1994, you questioned the following:

- * Turbidity in MW-2
- * Turbidity and Toluene in MW-7

As per your advice, we had our new lab, Short Environmental Laboratories, Inc., resample the two wells for the above mentioned. The results are enclosed. Please contact me should there be any further questions on these new samples.

Sincerely,

Janice Williamson

Janice Williamson,
S.W. Secretary
Recycling Coordinator

jw

CC: Chongman Lee, DEP, Tallahassee
Wade - Trim Engineering

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 US 27 South
Sebring, Florida 33870
1-800-833-4022 HRS # 85344 (813) 655-4022

05-13-94

For: Hardee County Landfill
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 25014

Sample type: Groundwater
Project: Hardee County
Location: Landfill
Sample ID: MW-7
Sampled by: D. Costello 04-15-94 @ 1310
Received: 04-15-94 @ 1500

4575

REPORT OF ANALYSIS


FIELD DATA

Parameter	Result	Units	Method
pH	4.39 —	S.U.	EPA 150.1
Conductivity	200. —	umhos/cm	EPA 120.1
Temperature	22.1 —	Degrees C	EPA 170.1
Water level	72002 8.50 —	Ft.	
Groundwater elevation (TOC)	-----	Ft. above MSL	
Volume removed before sampling	12.5	Gal.	

LABORATORY DATA

Parameter	Result	Units	Method
Turbidity	5.1 —	NTU	EPA 180.1
Toluene	< 0.01	ug/L	EPA 602

Respectfully Submitted,


Bruce Cummings
Laboratory Manager

SHORT ENVIRONMENTAL LABORATORIES, INC.
10405 US 27 South
Sebring, Florida 33870
1-800-833-4022 HRS # 85344 (813) 655-4022

05-13-94

For: Hardee County Landfill
P.O. Box 246
Wauchula, FL 33873
Attn: J.R. Prestridge

Laboratory Number: 25013

Sample type: Groundwater
Project: Hardee County
Location: Landfill
Sample ID: MW-2
Sampled by: D. Costello 04-15-94 @ 1325
Received: 04-15-94 @ 1500

4570

REPORT OF ANALYSIS


FIELD DATA
Parameter

Parameter	Result	Units	Method
pH	6.98	S.U.	EPA 150.1
Conductivity	415.	umhos/cm	EPA 120.1
Temperature	24.5	Degrees C	EPA 170.1
Water level	6.25	Ft.	
Groundwater elevation (TOC)	82.54 78.94	Ft. above MSL	
Volume removed before sampling	15.0	Gal.	

LABORATORY DATA
Parameter

Parameter	Result	Units	Method
Turbidity	28.	NTU	EPA 180.1

Respectfully Submitted,


Bruce Cummings
Laboratory Manager



ENVIROLAB, INC.

P.O. Box 607
Ormond Beach, Florida 32175
(904) 672-5668 • FAX (904) 673-8264

Environmental Certification
HRS #E83079

Drinking Water Certification
HRS #83160

8-5-91

HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

Description: 8 Samples Received on 08/06/91

Sampled By: ENVIROLAB

Client Job/PO Number:

Reference Number: 920356
Invoice Number: 92-0356

Reported Date : 08/24/91

Sample	Description	Client Id							
0001	4025A+	MW 1							
0002		MW 3							
0003		MW 4							
0004		MW 5							
0005		MW 6							
0006		MW 7							
0007		SPRAY LEACHATE							
0008		MW 2							
		#1	#3	#4	#5	#6	#7	Leachate #2	
		SAMPLE NUMBER							
PARAMETER		0001 4569	0002 71	0003 72	0004 73	0005 74	0006 75	0007 5351	0008 4570
DISSOLVED OXYGEN (FIELD)	MG/L							3.2	
BICARBONATE AS MG CaCO3/L	MG/L	< 5	42	23	13	29	< 5		
CHLORIDE	MG/L	44	16	12	21	63	68		
FIELD CONDUCTIVITY	UMHOS	332	143	130	133	281	267	516	
IRON	MG/L	13	3.3	17	6.5	8.0	12	2.6	
LEAD	MG/L	0.02	< 0.02	0.02	< 0.02	< 0.02	0.03	< 0.02	
MANGANESE	MG/L	0.01	0.02	0.02	0.02	0.01	0.01		
NITRATE NITROGEN	MG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50		
PH LAB	UNITS	4.7	6.8	5.8	5.8	5.8	4.7	6.9	
SODIUM	MG/L	14	4.8	5.1	7.7	22	20		



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Reference Number: 920356

Page: 2

PARAMETER		SAMPLE NUMBER							
		0001	0002	0003	0004	0005	0006	0007	0008
SULFATE	MG/L	78	18	12	8.5	5.5	8.0		
TEMPERATURE	C	28	34	28.1	32.3	28.3	29.1		
TOTAL COLIFORM	#/100							< 1	
TOTAL DISSOLVED SOLIDS	MG/L	370	200	330	110	190	190		
TOTAL ORGANIC CARBON	MG/L	68	7.7	52	7.2	2.4	6.6	5.6	
TURBIDITY	NTU							11	
WATER LEVEL (MSL) 72002	FEET	3.58	3.25	4.67	7.25	4.00	4.21		4.46

QC ACCEPTABLE

AUG 27 1991

H.F. ACOSTA
QA/QC OFFICER

APPROVED BY:

Robert L Sullivan
F. Guzman/R. Sullivan
Laboratory Contact



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JUL 8 1991

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SOLID WASTE

HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

5-6-91

Description: 8 Samples Received on 05/07/91

Sampled By: ENVIROLAB

Client Job/PO Number:

Reference Number: 919892
Invoice Number: 91-9892

Reported Date : 06/19/91

Sample	Description	Client Id
0001		MW 1
0002	4025 A7	MW 3
0003		MW 4
0004		MW 5
0005		MW 6
0006		MW 7
0007		SPRAY LEACHATE
0008		MW 2

PARAMETER	#1	#3	#4	#5	#6	#7	Leachate	#2
	0001	0002	0003	0004	0005	0006	0007	0008
	4569	71	72	73	74	75	5351	4570
DISSOLVED OXYGEN (FIELD)	MG/L						4.8	
BICARBONATE AS MG CaCO3/L	MG/L	< 5	18	13	6	21	< 5	
CHLORIDE	MG/L	45	16	16	30	61	66	
CONDUCTIVITY	UMHOS	290	124	125	144	283	276	487
IRON	MG/L	43	0.95	8.2	21	11	12	3.5
LEAD	MG/L	0.16	< 0.02	< 0.02	0.14	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L	0.024	< 0.005	< 0.005	0.049	< 0.005	< 0.005	
NITRATE NITROGEN	MG/L	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
PH FIELD	UNITS	5.2	5.3	5.8	5.3	5.4	4.6	6.9
SODIUM	MG/L	18	4.7	6.3	11	26	22	



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HRS #83160

Reference Number: 919892

Page: 2

PARAMETER	SAMPLE NUMBER							
	0001	0002	0003	0004	0005	0006	0007	0008
SULFATE	MG/L	45	8.6	24	7.0	< 5	10	
TEMPERATURE	C	26.9	24.2	23.0	23.7	23.3	23.1	25.5
TOTAL ALKALINITY	MG/L	< 5	18	13	6	21	< 5	
TOTAL COLIFORM	#/100							TNTC
TOTAL DISSOLVED SOLIDS	MG/L	330	82	160	120	160	140	
TOTAL ORGANIC CARBON	MG/L	84	3.7	22	14	2.8	6.4	10
TURBIDITY	NTU							13
WATER LEVEL (MSL)	FEET	81.67	80.75	79.58	78.34	81.52	80.93	78.94

APPROVED BY:

Michael C. Price
Laboratory Director



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HRS #83160

HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

1-22-91

Description: 8 Samples Received on 01/23/91

Sampled By: CLIENT

Client Job/PO Number:

Reference Number: 918836

Reported Date : 03/01/91

Invoice Number: 91-8836

Sample	Description	Client Id
0001	4025A1	MW-1
0002		MW-2
0003		MW-3
0004		MW-4
0005		MW-5
0006		MW-6
0007		MW-7
0008		SPRAY LEACHATE

PARAMETER	UNITS	SAMPLE NUMBER							
		0001 4569	0002 70	0003 71	0004 72	0005 73	0006 74	0007 75	0008 5351
BICARBONATE AS MG CaCO3/L	MG/L	7		26	32	9	27	1	210
CHLORIDE	MG/L	44		12	16	13	53	55	
DISSOLVED OXYGEN	MG/L								5.5
FIELD CONDUCTIVITY	UMHOS	375		129	177	105	245	260	527
IRON	MG/L	7.8		2.0	14	3.3	7.7	8.4	0.30
LEAD	MG/L	< 0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L	0.009		0.019	0.006	0.006	< 0.005	0.044	
NITRATE NITROGEN	MG/L	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	
PH FIELD	UNITS	5.1		6.0	5.6	5.2	5.2	4.4	6.3
SODIUM	MG/L	17		5.0	6.7	5.8	23	22	



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HRS #83160

Reference Number: 918836

Page: 2

PARAMETER	SAMPLE NUMBER							
	0001	0002	0003	0004	0005	0006	0007	0008
SULFATE	MG/L	45	8.6	29	12	2.6	12	
TEMPERATURE	C	18.0	26.8	20.4	22.5	21.6	21.0	17.5
TOTAL COLIFORM	#/100							TNTC
TOTAL DISSOLVED SOLIDS	MG/L	270	100	190	73	160	140	
TOTAL ORGANIC CARBON	MG/L	48	5.1	36	3.9	3.8	5.4	12.0
TURBIDITY	NTU							32
WATER LEVEL (MSL)	FEET	82.17	78.86	80.26	79.96	76.76	82.29	63.65

APPROVED BY:

Michael C. Price
Laboratory Director



1042 U.S. Highway 1 • P.O. Box 607
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Drinking Water Certification
HRS #83160

Environmental Certification
HRS #E83079

HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

11-13-90

4025AL

Description: 10 WATER SAMPLES Samples Received on 11/14/90

Sampled By: ENVIROLAB

Client Job/PO Number:

Reference Number: 918170

Reported Date : 01/21/91

Invoice Number: 91-8170

Sample	Description	Client Id
0001	HARDEE COUNTY LANDFILL	SPRAY LEACHATE
0002	HARDEE COUNTY LANDFILL	MW 6
0003	HARDEE COUNTY LANDFILL	MW 7
0004	HARDEE COUNTY LANDFILL	MW 3
0005	HARDEE COUNTY LANDFILL	MW 3 (DUPLICATE)
0006	HARDEE COUNTY LANDFILL	MW 5
0007	HARDEE COUNTY LANDFILL	MW 1
0008	HARDEE COUNTY LANDFILL	MW 4
0009	HARDEE COUNTY LANDFILL	MW 2

PARAMETER	Leachate #6 #7 #3 #5 #1 #4							
	SAMPLE NUMBER							
	0001	0002	0003	0004	0005	0006	0007	0008
	5351	4574	75	71		73	69	72
BICARBONATE AS MG CaCO3/L	MG/L	28	< 5	30	29	14	< 5	55
CHLORIDE	MG/L	51	49	12	13	24	50	10
FIELD CONDUCTIVITY	UMHOS	580	266	240	127	127	163	401
IRON	MG/L	1.7	7.8	8.9	1.5	2.0	7.9	14
LEAD	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
MANGANESE	MG/L		0.012	0.014	< 0.005	0.013	0.006	0.008
NITRATE NITROGEN	MG/L		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
PH FIELD	UNITS	6.2	5.6	4.6	5.6	5.6	5.3	4.6
SODIUM	MG/L		23	19	4.2	4.5	11	19

DO METER MALFUNCTIONED IN FIELD, THEREFORE WE WERE UNABLE TO REPORT DO FOR SPRAY LEACHATE

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HRS #83160

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HRS #E83079

Reference Number: 918170 Page: 2

PARAMETER	SAMPLE NUMBER							
	0001	0002	0003	0004	0005	0006	0007	0008
SULFATE	MG/L	3.1	15	2.3	2.3	13	50	< 5
TEMPERATURE	C	20.0	25.9	25.4	25.5	25.5	25.6	25.5
TOTAL COLIFORM	#/100	TNTC						
TOTAL DISSOLVED SOLIDS	MG/L	150	160	150	150	110	280	430
TOTAL ORGANIC CARBON	MG/L	9.5	9.2	11	17	18	13	58
TURBIDITY	NTU	13						
WATER LEVEL (MSL)	FEET	82.00	81.21	81.83	81.83	78.03	82.75	80.50

DO METER MALFUNCTIONED IN FIELD, THEREFORE WE WERE UNABLE TO REPORT DO FOR SPRAY LEACHATE

JAN 29 1991
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Ormond Beach, Florida 32174 • (904) 672-5668

Drinking Water Certification
HRS #83160

Environmental Certification
HRS #E83079

Reference Number: 918170

Page: 3

#2
SAMPLE NUMBER

PARAMETER

0009

70

WATER LEVEL (MSL)

FEET

78.88

DO METER MALFUNCTIONED IN FIELD, THEREFORE WE
WERE UNABLE TO REPORT DO FOR SPRAY LEACHATE

APPROVED BY:

Michael C. Price
Laboratory Director

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JAN 29 1991

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HARDEE COUNTY LANDFILL QUARTERLY REPORT
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001
 Monitoring Well # 4025A14569
 Well Name MW-1
 Classification of Groundwater GII

4025A1

Sample Date 4/30/90

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

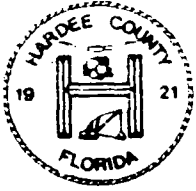
Well Developed Prior to
 Sample Collection (Yes/No) Yes

Ground Water Elevation
 (above MSL) 80.89

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00430	bicarb	pump	310.1	<1	mg/l	Unfiltered	cool 4°C
00940	chloride		325.3	51	mg/l		cool 4°C
900219	iron		236.1	8.3	mg/l		pH<2HNO3
900212	lead		239.1	<0.02	mg/l		pH<2HNO3
900220	manganese		243.1	0.008	mg/l		pH<2HNO3
00620	nitrate	pump	353.2	<0.5	mg/l	Unfiltered	pH<2H2SO4
00400	pH		150.1	6.70	units		field
00929	sodium		273.1	11	mg/l		pH<2HNO3
00945	sulfate		375.2	49	mg/l		pH<2HNO3
70304	total diss. solids		160.1	280	mg/l		cool 4°C
00680	total organic carbon	pump	415.1	37	mg/l	Unfiltered	pH<2HCL
00010	temperature		170.1	26	°C		field
00094	conductivity		120.1	335	umhos		field

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Robert F. Sulch
 Laboratory Contact



HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS DEPARTMENT
74 Hanchey Road
Wauchula, Florida 33873-2867

Buildings & Grounds
Parks & Recreation
Purchasing
Road & Bridge
Solid Waste

August 23, 1990

Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Re: Water Quality Analysis
Quarterly Reports

Dear Mr. Ford:

Enclosed you will find, water sample analysis reports, I received today for Envirolab. These samples are for the Hardee County Sanitary Landfill. The samples were taken on August 2, 1990 and are hereby submitted to you for your records.

Thank You,

J. R. Prestridge
Solid Waste Superintendent

JRP/jl

D. E. R.

AUG 29 1990

SOUTHWEST DISTRICT
TAMPA

D. E. R.

AUG 28 1990

SOUTHWEST DISTRICT
TAMPA

Analyzed by Envirolab
Certification No. E83079

HARDEE COUNTY LANDFILL QUARTERLY REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001

Sample Date 4/30/90

Monitoring Well # 4025A14570

Well Type: [] Background
[] Site Boundary
[] Intermediate
[x] Compliance

Well Name MW-2

Classification of Groundwater GI

Well Developed Prior to
Sample Collection (Yes/No) N/A

Ground Water Elevation
(above MSL) _____

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
82545	Water Level	tape	tape	77.78	ft NGVD	Unfiltered	Field

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Robert F. Smith
Laboratory Contact

HARDEE COUNTY LANDFILL QUARTERLY REPORT
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001
 Monitoring Well # 4025A14571
 Well Name MW-3
 Classification of Groundwater GI

Sample Date 4/30/90

Well Type: [] Background
 [] Site Boundary
 [] Intermediate
 [x] Compliance

Well Developed Prior to
 Sample Collection (Yes/No) Yes

Ground Water Elevation
 (above MSL) 80.92

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00430	bicarb	pump	310.1	24	mg/l	Unfiltered	cool 4°C
00940	chloride		325.3	9.9	mg/l		cool 4°C
900219	iron		236.1	0.67	mg/l		pH<2HNO3
900212	lead		239.1	<0.02	mg/l		pH<2HNO3
900220	manganese		243.1	<0.005	mg/l		pH<2HNO 3
00620	nitrate		353.2	<0.5	mg/l		pH<2H2SO4
00400	pH		150.1	4.84	units		field
00929	sodium		273.1	2.7	mg/l		pH<2HNO3
00945	sulfate		375.2	9.8	mg/l		pH<2HNO3
70304	total diss. solids		160.1	77	mg/l		cool 4°C
00680	total organic carbon	415.1	8.4	mg/l	pH<2HCL		
00010	temperature	170.1	26.5	°C	field		
00094	conductivity	120.1	127	umhos	field		

R E C E I V E D
 AUG 15 1990
 PURCHASING

Robert J. Suller
 Laboratory Contact

Analyzed by Envirolab
 Certification No. E83079

HARDEE COUNTY LANDFILL QUARTERLY REPORT
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001
 Monitoring Well # 4025A14572
 Well Name MW-4
 Classification of Groundwater GI

Sample Date 4/30/90
 Well Type: Background
 Site Boundary
 Intermediate
 Compliance
 Ground Water Elevation
 (above MSL) 79.12

Well Developed Prior to
 Sample Collection (Yes/No) Yes

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00430	bicarb	pump	310.1	19	mg/l	Unfiltered	cool 4°C
00940	chloride		325.3	17	mg/l		cool 4°C
900219	iron		236.1	6.8	mg/l		pH<2HNO3
900212	lead		239.1	<0.02	mg/l		pH<2HNO3
900220	manganese		243.1	<0.005	mg/l		pH<2HNO 3
00620	nitrate		353.2	<0.5	mg/l		pH<2H2SO4
00400	pH		150.1	5.55	units		field
00929	sodium		273.1	4.8	mg/l		pH<2HNO3
00945	sulfate		375.2	33	mg/l		pH<2HNO3
70304	total diss. solids		160.1	190	mg/l		cool 4°C
00680	total organic carbon		415.1	28	mg/l		pH<2HCL
00010	temperature		170.1	26	°C		field
00094	conductivity		120.1	198	umhos		field

D. E. R.

AUG 28 1990

SOUTHWEST DISTRICT
 TAMPA

Robert J. Keller
 Laboratory Contact

RECEIVED
 AUG 15 1990
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HARDEE COUNTY LANDFILL QUARTERLY REPORT
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001
 Monitoring Well # 4025A14573
 Well Name MW-5
 Classification of Groundwater GII

Sample Date 4/30/90

Well Type: [] Background
 [] Site Boundary
 [] Intermediate
 [xx] Compliance

Well Developed Prior to
 Sample Collection (Yes/No) Yes

Ground Water Elevation
 (above MSL) 77.8

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00430	bicarb	pump ↓	310.1	9.0	mg/l	Unfiltered ↓	cool 4°C
00940	chloride		325.3	13	mg/l		cool 4°C
900219	iron		236.1	2.9	mg/l		pH<2HNO3
900212	lead		239.1	<0.02	mg/l		pH<2HNO3
900220	manganese		243.1	<0.005	mg/l		pH<2HNO 3
00620	nitrate		353.2	<0.5	mg/l		pH<2H2SO4
00400	pH		150.1	4.90	units		field
00929	sodium		273.1	5.9	mg/l		pH<2HNO3
00945	sulfate		375.2	10	mg/l		pH<2HNO3
70304	total diss. solids		160.1	69	mg/l		cool 4°C
00680	total organic carbon		415.1	5.5	mg/l		pH<2HCL
00010	temperature		170.1	26.3	°C		field
00094	conductivity		120.1	106	umhos		field

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Robert S. Suller
 Laboratory Contact

Analyzed by Envirolab
 Certification No. E83079

HARDEE COUNTY LANDFILL QUARTERLY REPORT
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001

Sample Date 4/30/90

Monitoring Well # 4025A14574

Well Type: [] Background
 [] Site Boundary
 [] Intermediate
 [x] Compliance

Well Name MW-6

Classification of Groundwater GII

Well Developed Prior to
 Sample Collection (Yes/No) Yes

Ground Water Elevation
 (above MSL) 80.98

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00430	bicarb	pump	310.1	23	mg/l	Unfiltered	cool 4°C
00940	chloride		325.3	54	mg/l		cool 4°C
900219	iron		236.1	7.2	mg/l		pH<2HNO3
900212	lead		239.1	<0.02	mg/l		pH<2HNO3
900220	manganese		243.1	<0.005	mg/l		pH<2HNO 3
00620	nitrate		353.2	<0.5	mg/l		pH<2H2SO4
00400	pH		150.1	5.14	units		field
00929	sodium		273.1	18	mg/l		pH<2HNO3
00945	sulfate		375.2	<1	mg/l		pH<2HNO3
70304	total diss. solids		160.1	150	mg/l		cool 4°C
00680	total organic carbon		415.1	5.8	mg/l		pH<2HCL
00010	temperature		170.1	26	°C		field
00094	conductivity		120.1	270	umhos		field

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Robert J. Sullivan
 Laboratory Contact

HARDEE COUNTY LANDFILL QUARTERLY REPORT
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 4025C30001
 Monitoring Well # 4025A14575
 Well Name MW-7
 Classification of Groundwater GI
 Well Developed Prior to
 Sample Collection (Yes/No) Yes

Sample Date 4/30/90
 Well Type: Background
 Site Boundary
 Intermediate
 Compliance
 Ground Water Elevation
 (above MSL) 80.51

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00430	bicarb	pump	310.1	2.0	mg/l	Unfiltered	cool 4°C
00940	chloride		325.3	42	mg/l		cool 4°C
900219	iron		236.1	7.4	mg/l		pH<2HNO3
900212	lead		239.1	<0.02	mg/l		pH<2HNO3
900220	manganese		243.1	0.007	mg/l		pH<2HNO 3
00620	nitrate		353.2	<0.5	mg/l		pH<2H2SO4
00400	pH		150.1	4.40	units		field
00929	sodium		273.1	12	mg/l		pH<2HNO3
00945	sulfate		375.2	13	mg/l		pH<2HNO3
70304	total diss. solids	160.1	120	mg/l	cool 4°C		
00680	total organic carbon	415.1	30	mg/l	pH<2HCL		
00010	temperature	170.1	25	°C	field		
00094	conductivity	120.1	215	umhos	field		

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Robert L. Sullivan
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Analyzed by Envirolab
 Certification No. E83079

HARDEE COUNTY SPRAY FIELD
 (Rule 17-3.402, 17-3.404 - 17-3.406)

GMS# 5351
 Monitoring Well # _____
 Well Name Spray Leachate
 Classification of Groundwater GII

Sample Date 4/30/90

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Developed Prior to
 Sample Collection (Yes/No) N/A

Ground Water Elevation
 (above MSL) _____

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filt/Unfilt	Preservatives Added
00094	Conductivity	Pump	120.1	467	umhos	Unfiltered	field
00299	Dissolved Oxygen	↓	360.1	3.2	mg/l	↓	field
900219	Iron	↓	236.1	1.5	mg/l	↓	pH<2HNO3
900212	Lead	↓	239.1	<0.02	mg/l	↓	pH<2HNO3
00400	pH	↓	150.1	6.54	units	↓	cool 4°C
31501	Total Coliform	↓	M.F.	1000	#/100	↓	cool 4°C
00680	Total Organic Carbon	↓	415.1	10	mg/l	↓	pH<2HCL
00076	Turbidity	↓	180.1	9.8	NTU	↓	cool 4°C

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Robert J. Sullivan
 Laboratory Contact



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Ormond Beach, Florida 32174 • (904) 672-5668

Drinking Water Certification
HRS #83160

Environmental Certification
HRS #E83079

INVOICE

Sold to: HARDEE COUNTY DPW
ACCOUNT #2180
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: ACCOUNTS PAYABLE

Invoice #: 90-6305
Invoice Date: 06/04/90
Tax Exempt #:

P.O.:
Terms: NET 30

Description: 7 SAMPLE(S) RECEIVED 04/30/90
Laboratory Reference Number: 906305

QUANTITY	PARAMETER	UNIT PRICE	MULTIPLE DISCOUNT	EXTENDED PRICE
7	TOTAL ALKALINITY	10.00		70.00
6	CHLORIDE	15.00		90.00
7	IRON	20.00		140.00
6	MANGANESE	20.00		120.00
6	NITRATE NITROGEN	25.00		150.00
6	SODIUM	20.00		120.00
7	LEAD	20.00		140.00
6	SULFATE	15.00		90.00
1	TOTAL COLIFORM	25.00		25.00
6	TOTAL DISSOLVED SOLIDS	12.50		75.00
7	TOTAL ORGANIC CARBON	25.00		175.00
1	TURBIDITY	10.00		10.00
=====				
SAMPLE(S) TOTAL INCLUDING ANY MULTIPLE DISCOUNTS:				1205.00
ADJUSTMENT:				172.00
TOTAL DUE:				1377.00
=====				
BALANCE OWED:				1377.00

ADJUSTMENT DUE TO SAMPLING CHARGE

Please return with Payment

R E C E I V E D

AUG 15 1990

PURCHASING



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4025A1

HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

Description: 8 Samples Received on 02/02/90

Sampled By: ENVIROLAB Client Job/PO Number:

Reference Number: 905494 Reported Date: 03/01/90
Office Number: 90-5494

Sample	Description	Client Id
0001		SPRAY LEACHATE
0002		MW #4
0003		MW #1
0004		MW #5
0005		MW #3
0006		MW #7
0007		MW #6
0008		MW #2

PARAMETER	Leachate #4 #1 #5 #3 #7 #6 #2							
	0001 5351	0002 4572	0003 69	0004 73	0005 71	0006 75	0007 74	0008 70
LEAD	MG/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
BICARBONATE AS MG CaCO3/L	MG/L	22	2	11	26	3	7	
CHLORIDE	MG/L	22	55	14	17	48	75	
CONDUCTIVITY	UMHOS	526	155	309	104	137	212	274
DISSOLVED OXYGEN	MG/L	5.0						
IRON	MG/L	1.6	10	16	4.2	1.8	12	20
MANGANESE	MG/L		< 0.005	0.010	0.005	< 0.005	0.009	0.006
NITRATE NITROGEN	MG/L		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
PH FIELD	UNITS	7.1	5.85	5.0	5.5	5.6	4.8	5.0
SODIUM	MG/L		6.2	15	6.0	5.7	10	19
SULFATE	MG/L		22	48	14	10	15	6.0
TEMPERATURE	C	21.2	24.0	20.4	21.8	23.0	20.6	21.9



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Reference Number: 905494

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PARAMETER	SAMPLE NUMBER							
	0001	0002	0003	0004	0005	0006	0007	0008
TOTAL COLIFORM	#/100	TNTC						
TOTAL DISSOLVED SOLIDS	MG/L	190	310	80	100	140	180	
TOTAL ORGANIC CARBON	MG/L	4.0	33	37	6.2	21	12	4.2
TURBIDITY	NTU	7.6						
WATER LEVEL (MSL)	FEET	80.08	82.09	83.18	81.33	81.76	82.69	78.7

APPROVED BY:

MICHAEL C. PRICE
LABORATORY MANAGER



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Ormond Beach, Florida 32074 • (904) 672-5668

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HRS #83160

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HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

4025A1

11-13-89

Description: 8 Samples Received on 11/15/89

Sampled By: ENVIROLAB

Client Job/PO Number:

Reference Number: 894854

Reported Date : 12/21/89

Invoice Number: 89-4854

Sample	Description	Client Id
0001		MW #1 1320
0002		MW #3 1255
0003		MW #4 1335
0004		MW #5 1305
0005		MW #6 1225
0006		MW #7 1245
0007		SPRAY LEACHATE 1200
0008		MW #2 1150

PARAMETER	#1 SAMPLE NUMBER 0001 4589	#3 0002 71	#4 0003 72	#5 0004 73	#6 0005 74	#7 0006 75	Leachate Spray 0007 5351	#2 0008 4570
LEAD	MG/L < 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
BICARBONATE AS MG CaCO3/L	MG/L 2.0	32	26	12	24	3		
CHLORIDE	MG/L 39	18	18	14	60	44		
DISSOLVED OXYGEN (FIELD)	MG/L 2.7	4.3	1.1	3.4	3.2	2.0	3.0	
FIELD CONDUCTIVITY	UMHOS 222	128	209	111	277	219	475	
IRON	MG/L 6.3	12	31	5.8	12	10	1.3	
MANGANESE	MG/L 0.022	0.041	0.006	0.022	0.033	0.025		
NITRATE NITROGEN	MG/L < 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5		
PH FIELD	UNITS 6.52	6.61	5.84	6.46	6.68	5.21	6.91	
SODIUM	MG/L 12	4.9	5.4	5.3	14	8.0		
SULFATE	MG/L 29	< 10	< 5	6.1	< 2	< 5		
TEMPERATURE	C 27	31	27	28	28	26.3	23.7	



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Reference Number: 894854

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PARAMETER	SAMPLE NUMBER							
	0001	0002	0003	0004	0005	0006	0007	0008
TOTAL ALKALINITY	MG/L							150
TOTAL COLIFORM	#/100							TNTC
TOTAL DISSOLVED SOLIDS	MG/L	200	210	270	94	170	120	
TOTAL ORGANIC CARBON	MG/L	38	5.2	81	18	1.5	30	9.5
TURBIDITY	NTU							6.3
WATER LEVEL (MSL)	FEET	81.89	81.17	80.08	79.26	81.94	81.34	78.86

APPROVED BY:

MICHAEL C. PRICE
LABORATORY MANAGER



CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME				NO. OF CONTAINERS							REMARKS	
SAMPLERS: (Signature)							<i>Gr. pl. w/ H₂O₂</i> <i>Gr. pl. PLAIN</i> <i>2 oz. w/ HCl</i> <i>2oz. w/ H₂SO₄</i> <i>STERILE CONTAINER</i> <i>BOD - Bottle</i>							
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION									
MW# 6	11/13	1225		✓	HARDEE County Landfill	4								
MW# 7	11/13	1245		✓		4								
MW# 3	11/13	1255		✓		4								
MW# 5	11/13	1305		✓		4								
MW# 1	11/13	1320		✓		4								
MW# 4	11/13	1335		✓		4								
SPID Leachate	11/13	1200		✓		5								
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)				
D J DAVIS		11/14 0760		<i>[Signature]</i>										
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)				
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Remarks						
				<i>[Signature]</i>		11/15 815								



HARDEE COUNTY
BOARD OF COUNTY COMMISSIONERS
PUBLIC WORKS DEPARTMENT
74 Hanchey Road
Wauchula, Florida 33873-2867

Buildings & Grounds
Parks & Recreation
Purchasing
Road & Bridge
Solid Waste

83160

STED

November 14, 1989

D. E. R.

Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

NOV 16 1989

Re: Water Quality Analysis
Quarterly Reports

SOUTHWEST DISTRICT
TAMPA

Dear Mr. Ford:

Enclosed you will find, water sample analysis reports, I received today from Envirolab. These samples are for the Hardee County Sanitary Landfill. The samples were taken on August 30, 1989 and are hereby submitted to you, for your records.

Thank You,

J. R. Prestridge
Solid Waste Superintendent

JRP/jl

ENC.



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HRS #E83079

HARDEE COUNTY
DEPARTMENT OF PUBLIC
74 HANCHEY RD.
WAUCHULA FL 33873
ATTN: J.R. PRESTRIDGE

4025A1

Description: 8 Samples Received on 08/30/89

Sampled By: ENVIROLAB

Client Job/PO Number:

Reference Number: 894248

Reported Date: 10/17/89

Invoice Number: 89-4248

Sample	Description	Client Id
0001		MW 1
0002		MW 3
0003		MW 4
0004		MW 5
0005		MW 6
0006		MW 7
0007	SPRAY LEACHATE	
0008	MW-2	

PARAMETER	#1 SAMPLE NUMBER 0001 4567	#3 0002 4571	#4 0003 72	#5 0004 73	#6 0005 74	#7 0006 75	Leachate 0007 5351	#2 0008 4570
LEAD	MG/L	< 0.02	0.03	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
BICARBONATE AS MG CaCO3/L	MG/L	2.0	34	10	17	34	7.0	
CHLORIDE ✓	MG/L	47	15	28	15	46	36	
CONDUCTIVITY	UMHOS						384	
DISSOLVED OXYGEN	MG/L						4.0	
TOTAL CONDUCTIVITY ✓	UMHOS	285	155	225	130	215	185	
IRON	MG/L	8.1	14	16	3.3	13	11	1.7
MANGANESE	MG/L	0.035	0.066	0.015	0.021	0.038	0.027	
NITRATE NITROGEN ✓	MG/L	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
PH FIELD ✓	UNITS	4.94	6.23	5.87	5.78	5.98	4.97	
PH LAB	UNITS							6.9
SODIUM ✓	MG/L	15	5.3	7.5	6.2	13	7.5	



Envirolab, Inc.

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HRS #E83079

Reference Number: 894248

Page: 2

PARAMETER		SAMPLE NUMBER							
		0001	0002	0003	0004	0005	0006	0007	0008
SULFATE	MG/L	39	< 10	23	< 4	1.3	17		
TEMPERATURE	C	29	31	30	29	28	28		
TOTAL ALKALINITY	MG/L								
TOTAL COLIFORM	#/100							100	TNTC
TOTAL DISSOLVED SOLIDS	MG/L	250	180	270	120	200	130		
TOTAL ORGANIC CARBON	MG/L	43	12	32	12	14	7.4	11	
TURBIDITY	NTU							4.6	
WATER DEPTH	FEET	5.67	6.67	5.42	10.00	5.08	5.42		6.00
WATER LEVEL (MSL)	FEET	82.30	81.08	81.74	78.76	82.86	82.09		79.86

APPROVED BY:


 MICHAEL C. PRICE
 LABORATORY MANAGER