



5988  
31804

An employee-owned company

April 9, 2007

Dept. of Environmental  
Protection

Mr. John Morris, P.G.  
Florida Department of Environmental Protection  
Southwest District Office - Solid Waste Section  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637-0926

APR 11 2007

Southwest District

**Re: Manatee County Lena Road Landfill  
Monthly Report – March 2007**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2007 (Exhibit B), Monthly Leachate Meter Readings, Monthly Rainfall, and Monthly Groundwater Gradient Report.

An inward gradient was present in Stage I and Stage III of the landfill.

If you should have any questions concerning this report, please call me at 407/806-4153.

Sincerely,

Joe Miller, P.E.  
Senior Project Manager

Attachments

cc: Daniel T. Gray, Director, Utility Operations Department  
Gus DiFonzo, Solid Waste Manager  
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division  
File – 120498.94 0100

U:\SO\Projects\Manatee County\SW-05 Annual Monitoring\2007\March\MonthlyLtr\_March2007.doc

EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY  
 LENA ROAD LANDFILL  
 MONTHLY WATER BALANCE REPORT  
**March, 2007**

A	B	C	D	E	F	G	H
DATE	LEACHATE STAGE I Lift Station 1 (gallons)	LEACHATE STAGE I Lift Station 2 (gallons)	LEACHATE STAGE I TOTAL (gallons)	LEACHATE STAGE III TOTAL (gallons)	TOTAL LEACHATE PUMPED (gallons)	RAINFALL (inches)	RAINFALL (gallons)
01-Mar-07	10,200	7,600	17,800	26,800	44,600	0.00	0
02-Mar-07	14,760	2,400	17,160	32,500	49,660	0.00	0
03-Mar-07	0	0	0	0	0	0.02	91,244
04-Mar-07	0	0	0	0	0	0.08	364,977
05-Mar-07	27,270	3,500	30,770	85,400	116,170	0.00	0
06-Mar-07	7,120	8,600	15,720	27,000	42,720	0.00	0
07-Mar-07	11,170	4,300	15,470	36,600	52,070	0.00	0
08-Mar-07	9,060	9,400	18,460	21,800	40,260	0.00	0
09-Mar-07	10,570	8,000	18,570	25,900	44,470	0.00	0
10-Mar-07	0	0	0	0	0	0.00	0
11-Mar-07	0	0	0	0	0	0.00	0
12-Mar-07	31,710	30,600	62,310	89,800	152,110	0.00	0
13-Mar-07	9,120	12,500	21,620	29,200	50,820	0.00	0
14-Mar-07	8,850	16,900	25,750	24,500	50,250	0.00	0
15-Mar-07	24,970	3,300	28,270	36,400	64,670	0.00	0
16-Mar-07	60	1,000	1,060	20,200	21,260	0.36	1,642,397
17-Mar-07	0	0	0	0	0	0.00	0
18-Mar-07	0	0	0	0	0	0.00	0
19-Mar-07	29,710	50,000	79,710	87,600	167,310	0.00	0
20-Mar-07	6,080	13,000	19,080	21,600	40,680	0.00	0
21-Mar-07	7,760	9,600	17,360	26,400	43,760	0.00	0
22-Mar-07	10,740	19,300	30,040	31,300	61,340	0.00	0
23-Mar-07	12,670	1,100	13,770	33,100	46,870	0.00	0
24-Mar-07	0	0	0	0	0	0.00	0
25-Mar-07	0	0	0	0	0	0.00	0
26-Mar-07	27,110	53,000	80,110	78,500	158,610	0.00	0
27-Mar-07	9,600	15,500	25,100	25,400	50,500	0.00	0
28-Mar-07	10,040	8,700	18,740	26,600	45,340	0.00	0
29-Mar-07	10,750	19,800	30,550	26,800	57,350	0.00	0
30-Mar-07	10,810	11,300	22,110	30,600	52,710	0.00	0
31-Mar-07	0	0	0	0	0	0.00	0
<b>TOTAL</b>	<b>300,130</b>	<b>309,400</b>	<b>609,530</b>	<b>844,000</b>	<b>1,453,530</b>	<b>0.46</b>	<b>2,098,618</b>
Leachate Pumped as Percentage of Rainfall			47.8%	102.4%			

**Column Notes:**

- A - Date of reading.
- B - Leachate pumped (gallons) from Stage I by lift station 1.
- C - Leachate pumped (gallons) from Stage I by lift station 2.
- D - Total Stage I leachate pumpage (B+C).
- E - Leachate pumped (gallons) from Stage III.
- F - Total leachate pumped to WWTP storage tank (D+E).
- G - Rainfall (inches) recorded on this date.
- H - Rainfall (gallons) calculated based on open area (G x Area x 27,156 gal/acre-in).

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cover	102.0	--	102.0
Closed	30.0	--	30.0
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

**Comments**

## EXHIBIT B

### MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2007

	B	C	D	E	F	G	H
MONTH	STAGE I	STAGE III	TOTAL			STAGE I	STAGE III
	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	LEACHATE/ RAINFALL	LEACHATE /RAINFALL
	(gallons)	(gallons)	(gallons)	(inches)	(gallons)	(%)	(%)
JANUARY	427,030	961,900	1,388,930	2.36	10,766,823	6.5%	22.7%
FEBRUARY	510,050	881,000	1,391,050	1.09	4,972,812	16.9%	45.1%
MARCH	609,530	844,000	1,453,530	0.46	2,098,618	47.8%	102.4%
APRIL			0		0		
MAY			0		0		
JUNE			0		0		
JULY			0		0		
AUGUST			0		0		
SEPTEMBER			0		0		
OCTOBER			0		0		
NOVEMBER			0		0		
DECEMBER			0		0		
<b>TOTAL</b>	<b>1,546,610</b>	<b>2,686,900</b>	<b>4,233,510</b>	<b>3.91</b>	<b>17,838,253</b>	<b>14.3%</b>	<b>38.3%</b>

Notes:

1. (B) Total leachate pumped from Stage I.
2. (C) Total leachate pumped from Stage III.
3. (D) Total leachate (Column B+C) pumped to the WWTP storage tank.
4. (E) Total rainfall in inches.
5. (F) Total rainfall in gallons (Stage I and III Open Area of 168-acres x Rainfall)
6. (G) Stage I leachate pumped as a percentage of rainfall.
7. (H) Stage III leachate pumped as a percentage of rainfall.

**Landfill Stage Land Areas**

	Stage I	Stage III	TOTAL
	(acres)	(acres)	(acres)
Initial Cover	--	66.0	66.0
Intermediate Cov.	102.0	--	102.0
Closed	30.0	--	30.0
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

MARCH 2007 LEACHATE REPORT

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
3/1/07	3314304	380800	2377227	32.17	29.33	OK	AD
3/2/07	3315780	383200	2377552	32.20	29.30	OK	AD
<del>3/3/07</del>							
3/5/07	3318507	386700	2378406	32.23	29.30	OK	AD
3/6/07	3319219	395300	2378676	32.24	29.30	OK	AD
3/7/07	3320336	391600	2379042	32.24	29.30	OK	AD
3/8/07	3321242	409000	2379260	32.25	29.30	OK	AD
3/9/07	3322299	417000	2379519	32.26	29.30	OK	AD
<del>3/10/07</del>							
3/12/07	3325470	447600	2380417	32.27	29.30	OK	AD
3/13/07	3326382	460100	2380709	32.27	29.30	OK	AD
3/14/07	3327267	477000	2380954	32.28	29.30	OK	AD
3/15/07	3329784	480300	2381318	32.28	29.30	OK	AD
3/16/07	3329770	481300	2381520	32.28	29.30	OK	AD
<del>3/17/07</del>							
3/19/07	3332741	531300	2382396	32.24	29.30	OK	AD
3/20/07	3333349	544300	2382612	32.24	29.30	OK	AD
3/21/07	3334125	553900	2382876	32.23	29.30	OK	AD
3/22/07	3335199	573200	2383189	32.24	29.30	OK	AD
3/23/07	3336466	574300	2383520	32.24	29.30	OK	AD
<del>3/24/07</del>							
3/26/07	3339177	627300	2384305	32.25	29.30	OK	AD
3/27/07	3340137	642800	2384559	32.25	29.30	OK	AD
3/28/07	3341141	651500	2384825	32.24	29.30	OK	AD
3/29/07	3342216	671300	2385093	32.24	29.30	OK	AD
3/30/07	3343297	682600	2385399	32.24	29.30	OK	AD
<del>3/31/07</del>							

Landfill

LANDFILL SHEET		
2007 Mar	RAIN FALL	LEACHATE MGD
1	0.00	0.008
2	0.00	0.008
3	0.02	0.008
4	0.08	0.007
5	0.00	0.007
6	0.00	0.007
7	0.00	0.008
8	0.00	0.008
9	0.00	0.008
10	0.00	0.007
11	0.00	0.007
12	0.00	0.007
13	0.00	0.007
14	0.00	0.008
15	0.00	0.008
16	0.36	0.008
17	0.00	0.007
18	0.00	0.007
19	0.00	0.007
20	0.00	0.007
21	0.00	0.007
22	0.00	0.008
23	0.00	0.008
24	0.00	0.007
25	0.00	0.007
26	0.00	0.007
27	0.00	0.007
28	0.00	0.007
29	0.00	0.007
30	0.00	0.007
31	0.00	0.007
TOTAL	0.48	0.228
AVG		0.007
MIN		
MAX	0.36	0.008

Fax # 9-741-3398

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: March 2007

Piezometers Inside Slurry Wall				Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation	Gradient Flow	Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.56	<i>inward</i>	GW-1	38.68	30.08
P-2	42.32	28.62	<i>inward</i>	GW-2	40.92	30.11
P-3	40.36	25.66	<i>inward</i>	GW-3	39.40	31.38
P-4	40.78	22.16	<i>inward</i>	GW-4	40.53	30.93
P-5	40.73	21.75	<i>inward</i>	GW-5	39.90	30.34
P-6	40.74	21.39	<i>inward</i>	GW-6	38.95	29.63
P-7	40.60	21.39	<i>inward</i>	GW-7	39.49	27.39
P-8	40.21	21.36	<i>inward</i>	GW-8	39.75	26.50
P-9	39.97	21.46	<i>inward</i>	GW-9	39.65	26.75
P-10	39.86	20.41	<i>inward</i>	GW-10	38.34	26.47
P-11	40.52	22.77	<i>inward</i>	GW-11	38.26	29.11
P-12	43.28	29.47	<i>inward</i>	GW-12	42.09	30.09
P-13	44.78	30.37	<i>inward</i>	GW-13	44.79	32.39
P-14	45.09	29.86	<i>inward</i>	GW-14	39.63	34.18
P-15	45.57	30.93	<i>inward</i>	GW-15	42.33	35.19
P-16	44.67	31.12	<i>inward</i>	GW-16	44.41	34.67
P-17	44.28	30.05	<i>inward</i>	GW-17	42.19	33.22

Comments:

Date Data Collected: March 16, 2007

Form Revised December 6, 2004



39884

*An employee-owned company*

May 15, 2007

Dept. of Environmental  
Protection

Mr. John Morris, P.G.  
Florida Department of Environmental Protection  
Southwest District Office - Solid Waste Section  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637-0926

MAY 18 2007

Southwest District

**Re: Manatee County Lena Road Landfill  
Monthly Report – April 2007**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2007 (Exhibit B), Monthly Leachate Meter Readings, Monthly Rainfall, and Monthly Groundwater Gradient Report.

An inward gradient was present in Stage I and Stage III of the landfill.

If you should have any questions concerning this report, please call me at 407/806-4153.

Sincerely,

Joe Miller, P.E.  
Senior Project Manager

Attachments

cc: Daniel T. Gray, Director, Utility Operations Department  
Gus DiFonzo, Solid Waste Manager  
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division  
File – 120498.94 0100

U:\SO\Projects\Manatee County\SW-05 Annual Monitoring\2007\April\MonthlyLtr\_April2007.doc

EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY  
 LENA ROAD LANDFILL  
 MONTHLY WATER BALANCE REPORT  
 April, 2007

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 MAY 18 2007  
 SOUTHWEST DISTRICT TAMPA

A	B	C	D	E	F	G	H
DATE	LEACHATE STAGE I Lift Station 1 (gallons)	LEACHATE STAGE I Lift Station 2 (gallons)	LEACHATE STAGE I TOTAL (gallons)	LEACHATE STAGE III TOTAL (gallons)	TOTAL LEACHATE PUMPED (gallons)	RAINFALL (Inches)	RAINFALL (gallons)
01-Apr-07	0	0	0	0	0	0.00	0
02-Apr-07	29,650	7,400	37,050	76,900	113,950	0.00	0
03-Apr-07	11,030	5,000	16,030	31,300	47,330	0.00	0
04-Apr-07	10,430	0	10,430	25,100	35,530	0.00	0
05-Apr-07	13,430	1,400	14,830	27,400	42,230	0.00	0
06-Apr-07	16,120	0	16,120	32,700	48,820	0.00	0
07-Apr-07	0	0	0	0	0	0.00	0
08-Apr-07	0	0	0	0	0	0.00	0
09-Apr-07	25,500	12,000	37,500	72,600	110,100	0.33	1,505,530
10-Apr-07	13,260	2,800	16,060	30,900	46,960	1.90	8,668,205
11-Apr-07	19,470	3,700	23,170	43,800	66,970	0.52	2,372,351
12-Apr-07	7,310	1,200	8,510	19,300	27,810	0.30	1,368,664
13-Apr-07	10,560	1,700	12,260	36,700	48,960	0.00	0
14-Apr-07	0	0	0	0	0	0.00	0
15-Apr-07	0	0	0	0	0	0.25	1,140,553
16-Apr-07	37,360	500	37,860	113,500	151,360	0.00	0
17-Apr-07	7,390	7,100	14,490	23,200	37,690	0.00	0
18-Apr-07	15,660	2,800	18,460	37,000	55,460	0.02	91,244
19-Apr-07	13,390	2,400	15,790	29,700	45,490	0.00	0
20-Apr-07	11,890	1,700	13,590	35,000	48,590	0.00	0
21-Apr-07	0	0	0	0	0	0.00	0
22-Apr-07	0	0	0	0	0	0.00	0
23-Apr-07	24,140	5,000	29,140	94,000	123,140	0.00	0
24-Apr-07	6,500	1,400	7,900	24,000	31,900	0.00	0
25-Apr-07	10,890	1,900	12,790	30,200	42,990	0.00	0
26-Apr-07	13,890	3,000	16,890	37,900	54,790	0.00	0
27-Apr-07	8,090	1,300	9,390	20,700	30,090	0.00	0
28-Apr-07	0	0	0	0	0	0.00	0
29-Apr-07	0	0	0	0	0	0.00	0
30-Apr-07	29,330	8,800	38,130	86,900	125,030	0.00	0
01-May-07	0	0	0	0	0	0.00	0
<b>TOTAL</b>	<b>335,290</b>	<b>71,100</b>	<b>406,390</b>	<b>928,800</b>	<b>1,335,190</b>	<b>3.32</b>	<b>15,146,547</b>
Leachate Pumped as Percentage of Rainfall			4.4%	15.6%			

Column Notes:

- A - Date of reading.
- B - Leachate pumped (gallons) from Stage I by lift station 1.
- C - Leachate pumped (gallons) from Stage I by lift station 2.
- D - Total Stage I leachate pumpage (B+C).
- E - Leachate pumped (gallons) from Stage III.
- F - Total leachate pumped to WWTP storage tank (D+E).
- G - Rainfall (inches) recorded on this date.
- H - Rainfall (gallons) calculated based on open area (G x Area x 27,156 gal/acre-in).

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cover	102.0	--	102.0
Closed	30.0	--	30.0
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

Comments



## EXHIBIT B

### MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2007

	B	C	D	E	F	G	H
	STAGE I	STAGE III	TOTAL			STAGE I	STAGE III
MONTH	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	LEACHATE/ RAINFALL	LEACHATE /RAINFALL
	(gallons)	(gallons)	(gallons)	(inches)	(gallons)	(%)	(%)
JANUARY	427,030	961,900	1,388,930	2.36	10,766,823	6.5%	22.7%
FEBRUARY	510,050	881,000	1,391,050	1.09	4,972,812	16.9%	45.1%
MARCH	609,530	844,000	1,453,530	0.46	2,098,618	47.8%	102.4%
APRIL	406,390	928,800	1,335,190	3.32	15,146,547	4.4%	15.6%
MAY			0		0		
JUNE			0		0		
JULY			0		0		
AUGUST			0		0		
SEPTEMBER			0		0		
OCTOBER			0		0		
NOVEMBER			0		0		
DECEMBER			0		0		
<b>TOTAL</b>	<b>1,953,000</b>	<b>3,615,700</b>	<b>5,568,700</b>	<b>7.23</b>	<b>32,984,800</b>	<b>9.8%</b>	<b>27.9%</b>

Notes:

1. (B) Total leachate pumped from Stage I.
2. (C) Total leachate pumped from Stage III.
3. (D) Total leachate (Column B+C) pumped to the WWTP storage tank.
4. (E) Total rainfall in inches.
5. (F) Total rainfall in gallons (Stage I and III Open Area of 168-acres x Rainfall)
6. (G) Stage I leachate pumped as a percentage of rainfall.
7. (H) Stage III leachate pumped as a percentage of rainfall.

**Landfill Stage Land Areas**

	Stage I	Stage III	TOTAL
	(acres)	(acres)	(acres)
Initial Cover	--	66.0	66.0
Intermediate Cov.	102.0	--	102.0
Closed	30.0	--	30.0
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

ADD →

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER #1	METER #2	METER #3	S. G. #1	S. G. #2		
4/2/07	3346262	690000	2386184	32.24	29.30	OK	AD
4/3/07	3347365	695000	2386481	32.23	29.30	OK	AD
4/4/07	3348408	695000	2386732	32.25	29.30	OK	AD
4/5/07	3349751	696400	2387006	32.25	29.30	OK	AD
4/6/07	3351363	not working	2387333	32.25	29.30	OK	AD
<del>4/7/07</del>							
4/9/07	3353913	708400	2388059	32.24	29.30	OK	AD
4/10/07	3355239	711200	2388368	32.26	29.30	OK	AD
4/11/07	3357186	714900	2388806	32.28	30.40	OK	AD
4/12/07	3357917	716100	2388999	32.30	31.00	OK	AD
4/13/07	3358973	717800	2389366	32.28	30.80	OK	AD
<del>4/14/07</del>							
4/16/07	3362709	718300	2390581	32.20	30.40	OK	AD
4/17/07	3363448	725400	2390733	32.18	30.43	OK	AD
4/18/07	3365014	728200	2391103	32.15	30.39	OK	AD
4/19/07	3366353	730600	2391400	32.15	30.56	OK	AD
4/20/07	3367542	732300	2391750	32.14	30.55	OK	AD
<del>4/21/07</del>							
<del>4/22/07</del>							
4/23/07	3369956	737300	2392690	32.09	30.16	OK	AD
4/24/07	3370606	738700	2392930	32.07	30.15	OK	AD
4/25/07	3371695	740600	2393232	32.07	30.15	OK	AD
4/26/07	3373084	743600	2393611	32.06	30.15	OK	AD
4/27/07	3373893	744900	2393818	32.05	30.02	OK	AD
<del>4/28/07</del>							
4/30/07	3376826	753700	2394687	32.03	30.02	OK	AD

Landfill

LANDFILL SHEET		
2007 Apr	RAIN FALL	LEACHATE MGD
1	0.00	0.007
2	0.00	0.007
3	0.00	0.007
4	0.00	0.008
5	0.00	0.008
6	0.00	0.008
7	0.00	0.007
8	0.00	0.006
9	0.33	0.007
10	1.90	0.008
11	0.52	0.008
12	0.30	0.009
13	0.00	0.009
14	0.00	0.009
15	0.25	0.010
16	0.00	0.008
17	0.00	0.009
18	0.02	0.009
19	0.00	0.009
20	0.00	0.008
21	0.00	0.007
22	0.00	0.007
23	0.00	0.007
24	0.00	0.008
25	0.00	0.008
26	0.00	0.008
27	0.00	0.008
28	0.00	0.007
29	0.00	0.007
30	0.00	0.008
	0.00	0.000
<b>TOTAL</b>	<b>3.32</b>	<b>0.237</b>
<b>AVG</b>		<b>0.008</b>
<b>MIN</b>		
<b>MAX</b>	<b>1.90</b>	<b>0.010</b>

Fax # 8-741-3398

## FIGURE L-7

Manatee County Lena Road Landfill

# Monthly Groundwater Gradient Report

Month and Year: April 2007

Piezometers Inside Slurry Wall				Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation	Gradient Flow	Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.30	<i>inward</i>	GW-1	38.68	30.67
P-2	42.32	28.42	<i>inward</i>	GW-2	40.92	30.23
P-3	40.36	26.08	<i>inward</i>	GW-3	39.40	31.98
P-4	40.78	22.24	<i>inward</i>	GW-4	40.53	32.00
P-5	40.73	21.78	<i>inward</i>	GW-5	39.90	31.24
P-6	40.74	21.44	<i>inward</i>	GW-6	38.95	30.96
P-7	40.60	21.43	<i>inward</i>	GW-7	39.49	29.14
P-8	40.21	21.37	<i>inward</i>	GW-8	39.75	29.01
P-9	39.97	21.42	<i>inward</i>	GW-9	39.65	28.09
P-10	39.86	20.45	<i>inward</i>	GW-10	38.34	27.94
P-11	40.52	22.73	<i>inward</i>	GW-11	38.26	30.50
P-12	43.28	29.43	<i>inward</i>	GW-12	42.09	29.97
P-13	44.78	30.38	<i>inward</i>	GW-13	44.79	32.17
P-14	45.09	29.85	<i>inward</i>	GW-14	39.63	34.21
P-15	45.57	30.89	<i>inward</i>	GW-15	42.33	34.98
P-16	44.67	30.99	<i>inward</i>	GW-16	44.41	33.81
P-17	44.28	29.86	<i>inward</i>	GW-17	42.19	33.64

Comments:

Date Data Collected: April 13, 2007

Form Revised December 6, 2004



39889

An employee-owned company

Dept. of Environmental  
Protection

June 14, 2007

JUN 15 2007

Mr. John Morris, P.G.  
Florida Department of Environmental Protection  
Southwest District Office - Solid Waste Section  
13051 N. Telecom Parkway  
Temple Terrace, Florida 33637-0926

Southwest District

**Re: Manatee County Lena Road Landfill  
Monthly Report – May 2007**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2007 (Exhibit B), Monthly Leachate Meter Readings, Monthly Rainfall, and Monthly Groundwater Gradient Report.

An inward gradient was present in Stage I and Stage III of the landfill.

If you should have any questions concerning this report, please call me at 407/806-4153.

Sincerely,

Joe Miller, P.E.  
Senior Project Manager

Attachments

cc: Daniel T. Gray, Director, Utility Operations Department  
Gus DiFonzo, Solid Waste Manager  
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division  
File – 120498.94 0100

U:\SO\Projects\Manatee County\SW-05 Annual Monitoring\2007\May\MonthlyLtr\_May2007.doc

EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY  
 LENA ROAD LANDFILL  
 MONTHLY WATER BALANCE REPORT  
 May, 2007

FLORIDA DEPARTMENT OF  
 ENVIRONMENTAL PROTECTION  
 JUN 15 2007  
 SOUTHWEST DISTRICT  
 TAMPA

A	B	C	D	E	F	G	H
DATE	LEACHATE STAGE I Lift Station 1 (gallons)	LEACHATE STAGE I Lift Station 2 (gallons)	LEACHATE STAGE I TOTAL (gallons)	LEACHATE STAGE III TOTAL (gallons)	TOTAL LEACHATE PUMPED (gallons)	RAINFALL (inches)	RAINFALL (gallons)
01-May-07	12,200	3,800	16,000	33,000	49,000	0.00	0
02-May-07	9,670	3,300	12,970	25,400	38,370	0.00	0
03-May-07	10,690	2,800	13,490	27,200	40,690	0.00	0
04-May-07	10,020	1,800	11,820	26,800	38,620	0.00	0
05-May-07	0	0	0	0	0	0.00	0
06-May-07	0	0	0	0	0	0.00	0
07-May-07	30,300	4,200	34,500	83,200	117,700	0.00	0
08-May-07	9,180	3,400	12,580	27,400	39,980	0.00	0
09-May-07	12,500	2,400	14,900	28,800	43,700	0.00	0
10-May-07	11,770	1,500	13,270	29,300	42,570	0.00	0
11-May-07	13,290	1,500	14,790	35,000	49,790	0.00	0
12-May-07	0	0	0	0	0	0.00	0
13-May-07	0	0	0	0	0	0.00	0
14-May-07	27,490	3,200	30,690	71,100	101,790	0.00	0
15-May-07	8,520	1,000	9,520	32,000	41,520	0.00	0
16-May-07	16,000	1,900	17,900	44,900	62,800	0.16	729,954
17-May-07	2,070	100	2,170	6,000	8,170	0.00	0
18-May-07	8,070	1,000	9,070	21,500	30,570	0.00	0
19-May-07	0	0	0	0	0	0.00	0
20-May-07	0	0	0	0	0	0.00	0
21-May-07	25,650	5,500	31,150	95,900	127,050	0.00	0
22-May-07	8,950	1,800	10,750	32,500	43,250	0.00	0
23-May-07	8,890	1,800	10,690	31,500	42,190	0.00	0
24-May-07	6,820	700	7,520	26,800	34,320	0.00	0
25-May-07	8,420	1,200	9,620	31,200	40,820	0.00	0
26-May-07	0	0	0	0	0	0.00	0
27-May-07	0	0	0	0	0	0.00	0
28-May-07	0	0	0	0	0	0.00	0
29-May-07	40,940	6,000	46,940	116,800	163,740	0.00	0
30-May-07	8,760	800	9,560	22,200	31,760	0.00	0
31-May-07	9,150	700	9,850	22,900	32,750	0.00	0
<b>TOTAL</b>	<b>299,350</b>	<b>50,400</b>	<b>349,750</b>	<b>871,400</b>	<b>1,221,150</b>	<b>0.16</b>	<b>729,954</b>
Leachate Pumped as Percentage of Rainfall			78.9%	303.9%			

Column Notes:

- A - Date of reading.
- B - Leachate pumped (gallons) from Stage I by lift station 1.
- C - Leachate pumped (gallons) from Stage I by lift station 2.
- D - Total Stage I leachate pumpage (B+C).
- E - Leachate pumped (gallons) from Stage III.
- F - Total leachate pumped to WWTP storage tank (D+E).
- G - Rainfall (inches) recorded on this date.
- H - Rainfall (gallons) calculated based on open area (G x Area x 27,156 gal/acre-in).

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cover	102.0	--	102.0
Closed	30.0	--	30.0
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

Comments

JUN 15 2007

SOUTHWEST DISTRICT TAMPA

**EXHIBIT B**

**MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY  
LENA ROAD LANDFILL  
MONTHLY LEACHATE TRACKING SUMMARY -- 2007**

	B	C	D	E	F	G	H
MONTH	STAGE I LEACHATE (gallons)	STAGE III LEACHATE (gallons)	TOTAL LEACHATE (gallons)	RAINFALL (inches)	RAINFALL (gallons)	STAGE I LEACHATE/ RAINFALL (%)	STAGE III LEACHATE /RAINFALL (%)
JANUARY	427,030	961,900	1,388,930	2.36	10,766,823	6.5%	22.7%
FEBRUARY	510,050	881,000	1,391,050	1.09	4,972,812	16.9%	45.1%
MARCH	609,530	844,000	1,453,530	0.46	2,098,618	47.8%	102.4%
APRIL	406,390	928,800	1,335,190	3.32	15,146,547	4.4%	15.6%
MAY	349,750	871,400	1,221,150	0.16	729,954	78.9%	303.9%
JUNE			0		0		
JULY			0		0		
AUGUST			0		0		
SEPTEMBER			0		0		
OCTOBER			0		0		
NOVEMBER			0		0		
DECEMBER			0		0		
<b>TOTAL</b>	<b>2,302,750</b>	<b>4,487,100</b>	<b>6,789,850</b>	<b>7.39</b>	<b>33,714,754</b>	<b>11.2%</b>	<b>33.9%</b>

Notes:

1. (B) Total leachate pumped from Stage I.
2. (C) Total leachate pumped from Stage III.
3. (D) Total leachate (Column B+C) pumped to the WWTP storage tank.
4. (E) Total rainfall in inches.
5. (F) Total rainfall in gallons (Stage I and III Open Area of 168-acres x Rainfall)
6. (G) Stage I leachate pumped as a percentage of rainfall.
7. (H) Stage III leachate pumped as a percentage of rainfall.

**Landfill Stage Land Areas**

	Stage I (acres)	Stage III (acres)	TOTAL (acres)
Initial Cover	--	66.0	66.0
Intermediate Cov.	102.0	--	102.0
Closed	30.0	--	30.0
<b>TOTAL</b>	<b>132.0</b>	<b>66.0</b>	<b>198.0</b>
<b>Open Area</b>	<b>102.0</b>	<b>66.0</b>	<b>168.0</b>

meter #2  
ADD 696400

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
5/1/07	3378046	757500	2395017	32.03	30.02	OK	AD
5/2/07	3379013	760800	2395271	32.00	29.79	OK	AD
5/3/07	3380082	763600	2395543	22.00	29.77	OK	AD
5/4/07	3381084	765400	2395811	32.00	29.57	OK	AD
5/5/07							
5/7/07	3384114	769600	2396643	31.90	29.35	OK	AD
5/8/07	3385032	773000	2396917	31.87	29.33	OK	AD
5/9/07	3386282	775400	2397205	31.87	29.32	OK	AD
5/10/07	3387459	776900	2397498	31.87	29.32	OK	AD
5/11/07	3388788	778400	2397848	31.85	29.32	OK	AD
<del>5/12/07</del>						OK	AD
5/14/07	2391537	781600	2398557	31.77	29.32	OK	AD
5/15/07	2392389	782600	2398879	31.76	29.32	OK	AD
5/16/07	3393989	784500	2399328	31.73	29.32	OK	AD
5/17/07	3394196	784600	2399388	31.71	29.32	OK	AD
5/18/07	3395003	785600	2399603	31.68	29.32	OK	AD
<del>5/19/07</del>							
5/21/07	3397568	791100	2400582	31.62	29.32	OK	AD
5/22/07	3398463	792900	2400887	31.60	29.32	OK	AD
5/23/07	3399352	794700	2401202	31.57	29.32	OK	AD
5/24/07	3400034	795400	2401470	31.57	29.32	OK	AD
5/25/07	3400876	796600	2401782	31.56	29.32	OK	AD
<del>5/26/07</del>							
5/28/07	Hal						
5/29/07	3404470	802600	2402950	31.50	29.32 Dry	OK	AD
5/30/07	3405846	803400	2403172	31.39	29.32 Dry	OK	AD
5/31/07	3406761	804100	2403401	31.37	29.32 Dry	OK	AD

SOUTHWEST DISTRICT  
TAMPA

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
JUN 15 2007



Landfill

LANDFILL SHEET		
2007 May	RAIN FALL	LEACHATE MGD
1	0.00	0.008
2	0.00	0.008
3	0.00	0.008
4	0.00	0.007
5	0.00	0.007
6	0.00	0.007
7	0.00	0.007
8	0.00	0.008
9	0.00	0.007
10	0.00	0.007
11	0.00	0.007
12	0.00	0.007
13	0.00	0.007
14	0.00	0.006
15	0.00	0.006
16	0.16	0.006
17	0.00	0.007
18	0.00	0.007
19	0.00	0.007
20	0.00	0.006
21	0.00	0.007
22	0.00	0.007
23	0.00	0.007
24	0.00	0.006
25	0.00	0.007
26	0.00	0.007
27	0.00	0.007
28	0.00	0.007
29	0.00	0.007
30	0.00	0.070
31	0.00	0.007
<b>TOTAL</b>	<b>0.16</b>	<b>0.279</b>
<b>AVG</b>		<b>0.009</b>
<b>MIN</b>		
<b>MAX</b>	<b>0.16</b>	<b>0.070</b>

Fax # 9-708-5668

FLORIDA DEPARTMENT OF  
 ENVIRONMENTAL PROTECTION  
 JUN 15 2007  
 SOUTHWEST DISTRICT  
 TAMPA

**FAXED**

FIGURE L-7

Manatee County Lena Road Landfill

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
JUN 15 2007  
SOUTHWEST DISTRICT  
TAMPA

Monthly Groundwater Gradient Report

Month and Year: May 2007

Piezometers Inside Slurry Wall				Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation	Gradient Flow	Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.33	<i>inward</i>	GW-1	38.68	29.38
P-2	42.32	28.52	<i>inward</i>	GW-2	40.92	29.39
P-3	40.36	26.26	<i>inward</i>	GW-3	39.40	31.03
P-4	40.78	22.08	<i>inward</i>	GW-4	40.53	29.80
P-5	40.73	21.74	<i>inward</i>	GW-5	39.90	29.31
P-6	40.74	21.42	<i>inward</i>	GW-6	38.95	28.55
P-7	40.60	21.47	<i>inward</i>	GW-7	39.49	26.56
P-8	40.21	21.39	<i>inward</i>	GW-8	39.75	25.50
P-9	39.97	21.45	<i>inward</i>	GW-9	39.65	23.83
P-10	39.86	20.42	<i>inward</i>	GW-10	38.34	24.83
P-11	40.52	22.70	<i>inward</i>	GW-11	38.26	29.11
P-12	43.28	29.41	<i>inward</i>	GW-12	42.09	29.63
P-13	44.78	30.38	<i>inward</i>	GW-13	44.79	34.66
P-14	45.09	29.88	<i>inward</i>	GW-14	39.63	32.22
P-15	45.57	30.96	<i>inward</i>	GW-15	42.33	33.64
P-16	44.67	31.06	<i>inward</i>	GW-16	44.41	31.21
P-17	44.28	29.98	<i>inward</i>	GW-17	42.19	32.02

Comments:

Date Data Collected: May 22, 2007

Form Revised December 6, 2004