



An employee-owned company

November 12, 2010

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

Dept. Of Environmental Protection
NOV 15 2010
Southwest District

**Re: Manatee County Lena Road Landfill
Monthly Report – October 2010**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2010 (Exhibit B), Monthly Leachate Meter Readings, Monthly Rainfall, and Monthly Groundwater Gradient Report.

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

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

Sincerely,

A handwritten signature in blue ink that reads 'Joe Miller' in a cursive script.

Joe Miller, P.E.
Senior Project Manager

Attachments

cc: Mike Gore, Manatee County Solid Waste Division Manager
Bryan White, Manatee County Landfill Superintendent
Anthony Detweiler, Manatee County Landfill Operations Supervisor
File – 120498.94 0100

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EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY
 LENA ROAD LANDFILL
 MONTHLY WATER BALANCE REPORT
OCTOBER, 2010

Dept. Of Environmental Protection
NOV 15 2010
 Southwest District

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-Oct-10	28,970	10	28,980	10,400	39,380	0.00	0
02-Oct-10	0	0	0	0	0	0.00	0
03-Oct-10	0	0	0	0	0	0.00	0
04-Oct-10	71,920	350	72,270	28,400	100,670	0.00	0
05-Oct-10	20,920	0	20,920	9,300	30,220	0.00	0
06-Oct-10	20,330	0	20,330	8,700	29,030	0.00	0
07-Oct-10	20,630	1,930	22,560	9,300	31,860	0.00	0
08-Oct-10	21,560	850	22,410	9,800	32,210	0.00	0
09-Oct-10	0	0	0	0	0	0.00	0
10-Oct-10	0	0	0	0	0	0.00	0
11-Oct-10	62,600	1,610	64,210	27,900	92,110	0.00	0
12-Oct-10	18,810	720	19,530	8,300	27,830	0.00	0
13-Oct-10	21,960	380	22,340	9,500	31,840	0.00	0
14-Oct-10	21,830	430	22,260	8,600	30,860	0.00	0
15-Oct-10	21,950	420	22,370	9,500	31,870	0.00	0
16-Oct-10	0	0	0	0	0	0.00	0
17-Oct-10	0	0	0	0	0	0.00	0
18-Oct-10	56,570	940	57,510	25,900	83,410	0.00	0
19-Oct-10	20,770	440	21,210	8,700	29,910	0.00	0
20-Oct-10	21,400	380	21,780	8,900	30,680	0.00	0
21-Oct-10	20,110	400	20,510	8,700	29,210	0.00	0
22-Oct-10	17,850	260	18,110	8,400	26,510	0.00	0
23-Oct-10	0	0	0	0	0	0.00	0
24-Oct-10	0	0	0	0	0	0.00	0
25-Oct-10	76,620	930	77,550	26,200	103,750	0.00	0
26-Oct-10	18,800	210	19,010	7,700	26,710	0.00	0
27-Oct-10	0	260	260	8,300	8,560	0.00	0
28-Oct-10	15,920	210	16,130	7,900	24,030	0.00	0
29-Oct-10	0	0	0	0	0	0.00	0
30-Oct-10	0	0	0	0	0	0.00	0
31-Oct-10	0	0	0	0	0	0.00	0
TOTAL	579,520	10,730	590,250	250,400	840,650	0.00	0
Leachate Pumped as Percentage of Rainfall			N/A	N/A			

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
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

Comments

EXHIBIT B

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL MONTHLY LEACHATE TRACKING SUMMARY -- 2010

	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	680,510	605,300	1,285,810	3.21	14,644,704	7.7%	10.5%
FEBRUARY	728,310	543,100	1,271,410	2.72	12,409,219	9.7%	11.1%
MARCH	890,130	579,900	1,470,030	4.36	19,891,249	7.4%	7.4%
APRIL	780,100	485,800	1,265,900	2.54	11,588,021	11.1%	10.7%
MAY	536,970	374,700	911,670	1.78	8,120,739	10.9%	11.7%
JUNE	600,970	367,900	968,870	8.68	39,600,009	2.5%	2.4%
JULY	1,012,160	376,100	1,388,260	6.59	30,064,984	5.5%	3.2%
AUGUST	846,480	404,900	1,251,380	12.26	55,932,732	2.5%	1.8%
SEPTEMBER	1,015,480	335,600	1,351,080	1.89	8,622,583	19.4%	9.9%
OCTOBER	590,250	250,400	840,650	0.00	0	N/A	N/A
NOVEMBER							
DECEMBER							
TOTAL	7,681,360	4,323,700	12,005,060	44.03	200,874,240	6.3%	5.5%

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
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

Landfill

LANDFILL SHEET			LAKE LEVEL DATA IN FEET NGVD	
2010 oct	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1	0.00	0.012	41.60	35.80
2	0.00	0.012	41.70	35.40
3	0.00	0.012	41.70	35.50
4	0.00	0.011	41.70	35.40
5	0.00	0.011	41.70	35.30
6	0.00	0.015	41.60	35.20
7	0.00	0.013	41.40	35.40
8	0.00	0.012	41.20	35.40
9	0.00	0.012	41.10	35.00
10	0.00	0.012	40.90	34.90
11	0.00	0.012	40.80	35.00
12	0.00	0.012	40.70	34.70
13	0.00	0.012	40.60	34.30
14	0.00	0.013	40.40	34.80
15	0.00	0.012	40.40	34.30
16	0.00	0.011	40.00	34.10
17	0.00	0.011	40.30	33.70
18	0.00	0.011	40.10	33.40
19	0.00	0.012	40.00	33.20
20	0.00	0.012	40.00	32.60
21	0.00	0.011	39.80	32.40
22	0.00	0.011	39.70	32.40
23	0.00	0.010	39.60	32.20
24	0.00	0.011	39.60	31.50
25	0.00	0.011	39.40	31.40
26	0.00	0.011	39.30	31.10
27	0.00	0.010	39.10	31.30
28	0.00	0.010	39.00	30.90
29	0.00	0.011	38.90	30.90
30	0.00	0.010	38.90	31.10
31	0.00	0.010	38.80	30.90
TOTAL	0.00	0.356		
AVG		0.011		
MIN				
MAX	0.00	0.015		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: OCTOBER 2010

Piezometers Inside Slurry Wall			Gradient Flow	Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation		Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.66	<i>inward</i>	GW-1	38.68	30.38
P-2	42.32	28.78	<i>inward</i>	GW-2	40.92	30.38
P-3	40.36	25.30	<i>inward</i>	GW-3	39.40	31.89
P-4	40.78	22.04	<i>inward</i>	GW-4	40.53	30.92
P-5	40.73	20.92	<i>inward</i>	GW-5	39.90	30.77
P-6	40.74	19.92	<i>inward</i>	GW-6	38.95	30.05
P-7	40.60	18.90	<i>inward</i>	GW-7	39.49	27.77
P-8	40.21	18.61	<i>inward</i>	GW-8	39.75	26.34
P-9	39.97	19.45	<i>inward</i>	GW-9	39.65	25.98
P-10	39.86	19.31	<i>inward</i>	GW-10	38.34	25.90
P-11	40.52	22.38	<i>inward</i>	GW-11	38.26	29.13
P-12	43.28	29.47	<i>inward</i>	GW-12	42.09	31.03
P-13	44.78	30.59	<i>inward</i>	GW-13	44.79	32.60
P-14	45.09	29.86	<i>inward</i>	GW-14	39.63	32.44
P-15	45.57	31.02	<i>inward</i>	GW-15	42.33	34.30
P-16	44.67	31.07	<i>inward</i>	GW-16	44.41	33.90
P-17	44.28	29.98	<i>inward</i>	GW-17	42.19	33.06

Comments:

Date Data Collected: October 21, 2010

Form Revised December 6, 2004