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Dept. Of Environmental Protection

OCT 18 2010

Southwest District

October 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

**Re: Manatee County Lena Road Landfill
Monthly Report – September 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'. The signature is fluid and cursive, with a large initial 'J' and 'M'.

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

Dept. Of Environmental Protection

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

SEPTEMBER, 2010

OCT 18 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-Sep-10	94,000	2,120	96,120	16,700	112,820	0.00	0
02-Sep-10	69,530	70	69,600	14,300	83,900	0.00	0
03-Sep-10	7,760	1,430	9,190	13,700	22,890	0.00	0
04-Sep-10	0	0	0	0	0	0.00	0
05-Sep-10	0	0	0	0	0	0.02	91,244
06-Sep-10	0	0	0	0	0	0.00	0
07-Sep-10	6,970	4,280	11,250	54,800	66,050	0.00	0
08-Sep-10	0	2,000	2,000	10,100	12,100	0.00	0
09-Sep-10	0	2,760	2,760	10,200	12,960	0.00	0
10-Sep-10	115,770	1,350	117,120	11,400	128,520	0.11	501,843
11-Sep-10	0	0	0	0	0	0.02	91,244
12-Sep-10	0	0	0	0	0	0.00	0
13-Sep-10	150,640	1,850	152,490	0	152,490	0.77	3,512,904
14-Sep-10	41,130	690	41,820	42,500	84,320	0.00	0
15-Sep-10	35,340	140	35,480	9,500	44,980	0.00	0
16-Sep-10	36,240	500	36,740	10,200	46,940	0.00	0
17-Sep-10	35,340	700	36,040	9,900	45,940	0.08	364,977
18-Sep-10	0	0	0	0	0	0.00	0
19-Sep-10	0	0	0	0	0	0.05	228,111
20-Sep-10	100,780	2,180	102,960	31,600	134,560	0.00	0
21-Sep-10	27,950	570	28,520	9,500	38,020	0.00	0
22-Sep-10	31,080	230	31,310	10,900	42,210	0.34	1,551,152
23-Sep-10	27,280	30	27,310	9,800	37,110	0.00	0
24-Sep-10	28,190	200	28,390	10,400	38,790	0.23	1,049,309
25-Sep-10	0	0	0	0	0	0.00	0
26-Sep-10	0	0	0	0	0	0.15	684,332
27-Sep-10	90,570	490	91,060	30,500	121,560	0.00	0
28-Sep-10	32,230	90	32,320	10,400	42,720	0.12	547,466
29-Sep-10	30,860	0	30,860	9,600	40,460	0.00	0
30-Sep-10	32,060	80	32,140	9,600	41,740	0.00	0
01-Oct-10	0	0	0	0	0	0.00	0
TOTAL	993,720	21,760	1,015,480	335,600	1,351,080	1.89	8,622,583
Leachate Pumped as Percentage of Rainfall			19.4%	9.9%			

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
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
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	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							
NOVEMBER							
DECEMBER							
TOTAL	7,091,110	4,073,300	11,164,410	44.03	200,874,240	5.8%	5.2%

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 Sep	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1	0.00	0.024	39.70	36.60
2	0.00	0.028	39.80	36.30
3	0.00	0.019	39.90	36.30
4	0.00	0.009	40.00	36.30
5	0.02	0.009	40.10	36.40
6	0.00	0.012	40.20	36.40
7	0.00	0.008	40.20	36.30
8	0.00	0.012	40.30	36.40
9	0.00	0.026	40.30	36.10
10	0.11	0.025	40.50	36.40
11	0.02	0.020	40.50	36.30
12	0.00	0.018	40.60	36.20
13	0.77	0.019	40.70	36.10
14	0.00	0.017	40.90	36.00
15	0.00	0.016	40.90	36.20
16	0.00	0.016	40.90	36.10
17	0.08	0.015	41.00	35.80
18	0.00	0.015	41.10	36.10
19	0.05	0.015	41.10	36.10
20	0.00	0.015	41.10	36.10
21	0.00	0.014	41.20	35.90
22	0.34	0.014	41.20	36.00
23	0.00	0.014	41.20	36.00
24	0.23	0.013	41.30	35.80
25	0.00	0.014	41.40	35.70
26	0.15	0.014	41.40	35.70
27	0.00	0.014	41.50	35.70
28	0.12	0.014	41.70	35.70
29	0.00	0.015	41.60	35.70
30	0.00	0.014	41.60	35.80
31				
TOTAL	1.89	0.478		
AVG		0.016		
MIN				
MAX	0.77	0.028		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: SEPTEMBER 2010

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	29.84	<i>inward</i>	GW-1	38.68	31.10
P-2	42.32	28.92	<i>inward</i>	GW-2	40.92	31.12
P-3	40.36	25.50	<i>inward</i>	GW-3	39.40	32.95
P-4	40.78	22.02	<i>inward</i>	GW-4	40.53	31.84
P-5	40.73	20.91	<i>inward</i>	GW-5	39.90	31.62
P-6	40.74	19.86	<i>inward</i>	GW-6	38.95	30.93
P-7	40.60	18.92	<i>inward</i>	GW-7	39.49	28.70
P-8	40.21	18.65	<i>inward</i>	GW-8	39.75	27.43
P-9	39.97	19.45	<i>inward</i>	GW-9	39.65	26.86
P-10	39.86	19.31	<i>inward</i>	GW-10	38.34	27.02
P-11	40.52	22.40	<i>inward</i>	GW-11	38.26	29.65
P-12	43.28	29.39	<i>inward</i>	GW-12	42.09	31.61
P-13	44.78	30.44	<i>inward</i>	GW-13	44.79	32.81
P-14	45.09	30.37	<i>inward</i>	GW-14	39.63	33.18
P-15	45.57	31.01	<i>inward</i>	GW-15	42.33	34.72
P-16	44.67	31.05	<i>inward</i>	GW-16	44.41	34.79
P-17	44.28	30.02	<i>inward</i>	GW-17	42.19	33.34

Comments:

Date Data Collected: September 30, 2010

Form Revised December 6, 2004