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February 1, 2012

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
FEB 02 2012
Southwest District

**Re: Manatee County Lena Road Landfill
Monthly Report – January 2012**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Monthly Leachate Tracking Summary - 2012 (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,

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

JANUARY, 2012

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-Jan-12	0	0	0	0	0	0.00	0
02-Jan-12	34,830	21,720	56,550	21,000	77,550	0.00	0
03-Jan-12	9,040	6,920	15,960	5,400	21,360	0.00	0
04-Jan-12	7,580	6,920	14,500	5,600	20,100	0.00	0
05-Jan-12	12,010	6,610	18,620	8,400	27,020	0.00	0
06-Jan-12	13,840	3,530	17,370	7,100	24,470	0.00	0
07-Jan-12	0	0	0	0	0	0.00	0
08-Jan-12	0	0	0	0	0	0.00	0
09-Jan-12	37,830	11,540	49,370	22,500	71,870	0.00	0
10-Jan-12	14,340	4,480	18,820	6,700	25,520	0.00	0
11-Jan-12	18,170	5,590	23,760	10,200	33,960	0.00	0
12-Jan-12	14,970	5,380	20,350	6,600	26,950	0.00	0
13-Jan-12	9,830	7,530	17,360	7,200	24,560	0.20	912,443
14-Jan-12	0	0	0	0	0	0.00	0
15-Jan-12	0	0	0	0	0	0.00	0
16-Jan-12	19,800	11,350	31,150	12,500	43,650	0.00	0
17-Jan-12	11,920	3,940	15,860	8,500	24,360	0.00	0
18-Jan-12	15,200	7,500	22,700	8,300	31,000	0.12	547,466
19-Jan-12	14,310	6,070	20,380	6,800	27,180	0.00	0
20-Jan-12	11,210	3,690	14,900	7,100	22,000	0.00	0
21-Jan-12	0	0	0	0	0	0.00	0
22-Jan-12	0	0	0	0	0	0.00	0
23-Jan-12	37,900	7,330	45,230	18,900	64,130	0.00	0
24-Jan-12	11,230	4,300	15,530	7,000	22,530	0.00	0
25-Jan-12	10,850	5,960	16,810	5,100	21,910	0.00	0
26-Jan-12	12,860	5,940	18,800	6,800	25,600	0.00	0
27-Jan-12	15,320	6,850	22,170	8,400	30,570	0.62	2,828,572
28-Jan-12	0	0	0	0	0	0.00	0
29-Jan-12	0	0	0	0	0	0.00	0
30-Jan-12	28,090	9,060	37,150	15,500	52,650	0.00	0
31-Jan-12	9,120	2,310	11,430	6,900	18,330	0.00	0
TOTAL	370,250	154,520	524,770	212,500	737,270	0.94	4,288,480
Leachate Pumped as Percentage of Rainfall			20.2%	12.6%			

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
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 -- 2012

	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	524,770	212,500	737,270	0.94	4,288,480	20.2%	12.6%
FEBRUARY							
MARCH							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	524,770	212,500	737,270	0.94	4,288,480	20.2%	12.6%

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
TOTAL	132.0	66.0	198.0
Open Area	102.0	66.0	168.0

Landfill

LANDFILL SHEET			LAKE LEVEL DATA IN FEET NGVD	
2012 Jan	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1	0.00	0.005	37.40	26.90
2	0.00	0.005	37.30	26.80
3	0.00	0.005	37.20	26.40
4	0.00	0.004	37.10	25.80
5	0.00	0.005	37.00	25.90
6	0.00	0.006	37.00	26.40
7	0.00	0.006	36.90	26.80
8	0.00	0.005	36.90	27.10
9	0.00	0.005	36.90	27.50
10	0.00	0.005	36.90	27.70
11	0.00	0.007	36.80	28.20
12	0.00	0.005	36.80	28.90
13	0.20	0.003	36.80	29.30
14	0.00	0.003	36.80	29.40
15	0.00	0.003	36.70	29.90
16	0.00	0.004	36.70	30.20
17	0.00	0.005	36.60	30.30
18	0.12	0.006	36.60	30.00
19	0.00	0.005	36.60	29.80
20	0.00	0.004	36.50	30.00
21	0.00	0.005	36.50	29.60
22	0.00	0.005	36.50	29.50
23	0.00	0.005	36.50	29.30
24	0.00	0.006	36.40	29.30
25	0.00	0.006	36.50	29.10
26	0.00	0.007	36.40	29.00
27	0.62	0.007	36.70	29.80
28	0.00	0.006	36.90	30.10
29	0.00	0.006	37.00	30.50
30	0.00	0.005	37.20	30.60
31	0.00	0.004	37.10	30.80
TOTAL	0.94	0.158		
AVG		0.005		
MIN				
MAX	0.62	0.007		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: JANUARY 2012

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	30.14	<i>inward</i>	GW-1	38.68	31.27
P-2	42.32	30.02	<i>inward</i>	GW-2	40.92	31.32
P-3	40.36	25.01	<i>inward</i>	GW-3	39.40	31.58
P-4	40.78	23.73	<i>inward</i>	GW-4	40.53	30.70
P-5	40.73	23.68	<i>inward</i>	GW-5	39.90	30.29
P-6	40.74	23.64	<i>inward</i>	GW-6	38.95	29.55
P-7	40.60	23.63	<i>inward</i>	GW-7	39.49	27.22
P-8	40.21	23.55	<i>inward</i>	GW-8	39.75	25.88
P-9	39.97	23.67	<i>inward</i>	GW-9	39.65	26.33
P-10	39.86	22.59	<i>inward</i>	GW-10	38.34	26.24
P-11	40.52	23.77	<i>inward</i>	GW-11	38.26	28.57
P-12	43.28	29.96	<i>inward</i>	GW-12	42.09	30.54
P-13	44.78	30.62	<i>inward</i>	GW-13	44.79	33.18
P-14	45.09	29.93	<i>inward</i>	GW-14	39.63	32.56
P-15	45.57	31.07	<i>inward</i>	GW-15	42.33	33.30
P-16	44.67	31.18	<i>inward</i>	GW-16	44.41	32.47
P-17	44.28	30.07	<i>inward</i>	GW-17	42.19	32.80

Comments:

Date Data Collected: January 17, 2012

Form Revised December 6, 2004