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April 3, 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
APR 05 2012
Southwest District

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

MARCH, 2012

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR 05 2012
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-Mar-12	14,910	6,380	21,290	8,800	30,090	0.00	0
02-Mar-12	14,180	3,840	18,020	7,000	25,020	0.00	0
03-Mar-12	0	0	0	0	0	0.00	0
04-Mar-12	0	0	0	0	0	0.00	0
05-Mar-12	34,880	12,490	47,370	18,800	66,170	0.00	0
06-Mar-12	5,900	4,940	10,840	5,500	16,340	0.00	0
07-Mar-12	8,230	5,390	13,620	5,200	18,820	0.00	0
08-Mar-12	11,430	7,160	18,590	7,100	25,690	0.00	0
09-Mar-12	13,360	2,920	16,280	7,000	23,280	0.00	0
10-Mar-12	0	0	0	0	0	0.00	0
11-Mar-12	0	0	0	0	0	0.00	0
12-Mar-12	33,810	11,610	45,420	21,000	66,420	0.00	0
13-Mar-12	10,810	6,520	17,330	5,400	22,730	0.00	0
14-Mar-12	12,060	6,740	18,800	7,200	26,000	0.00	0
15-Mar-12	11,840	6,920	18,760	7,200	25,960	0.00	0
16-Mar-12	11,630	5,760	17,390	5,200	22,590	0.00	0
17-Mar-12	0	0	0	0	0	0.00	0
18-Mar-12	0	0	0	0	0	0.00	0
19-Mar-12	35,390	20,050	55,440	19,800	75,240	0.00	0
20-Mar-12	14,350	6,810	21,160	9,500	30,660	0.00	0
21-Mar-12	13,540	7,330	20,870	6,300	27,170	1.14	5,200,923
22-Mar-12	11,600	1,990	13,590	7,300	20,890	0.30	1,368,664
23-Mar-12	12,760	20	12,780	7,100	19,880	0.00	0
24-Mar-12	0	0	0	0	0	0.00	0
25-Mar-12	0	0	0	0	0	1.00	4,562,213
26-Mar-12	46,090	2,330	48,420	26,700	75,120	0.00	0
27-Mar-12	10,290	4,790	15,080	7,100	22,180	0.00	0
28-Mar-12	9,020	5,410	14,430	7,300	21,730	0.00	0
29-Mar-12	13,560	2,130	15,690	9,100	24,790	0.00	0
30-Mar-12	13,690	2,280	15,970	9,000	24,970	0.00	0
31-Mar-12	0	0	0	0	0	0.40	1,824,885
TOTAL	363,330	133,810	497,140	214,600	711,740	2.84	12,956,685
Leachate Pumped as Percentage of Rainfall			6.3%	4.2%			

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

Dept. Of Environmental Protection
APR 05 2012
Southwest District

	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	500,670	193,200	693,870	0.64	2,919,816	28.2%	16.8%
MARCH	497,140	214,600	711,740	2.84	12,956,685	6.3%	4.2%
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	1,522,580	620,300	2,142,880	4.42	20,164,982	12.4%	7.8%

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

3/1/12	658684	4445090	2810209	32.56	Dry	OK	R.B.
3/2/12	6580102	4448930	2810579	32.55	Dry	OK	R.B.
3/5/12	6583590	4461420	2810467	32.48	Dry	OK	R.B.
3/6/12	6584180	4466360	2810522	32.46	Dry	OK	R.B.
3/7/12	6585003	4471750	2810574	32.44	Dry	OK	R.B.
3/8/12	6586146	4478910	2810645	32.41	Dry	OK	R.B.
3/9/12	6587482	448183	2810715	32.40	Dry	OK	M.B.
3/12/12	6590863	4493440	2810925	32.37	Dry	OK	R.B.
3/13/12	6591944	4499960	2810979	32.35	Dry	OK	R.B.
3/14/12	6593150	4506700	2811051	32.34	Dry	OK	R.B.
3/15/12	6594234	4513620	2811123	32.31	Dry	OK	R.B.
3/16/12	6595497	4519380	2811175	32.29	Dry	OK	R.B.
3/19/12	6599036	4539430	2811373	32.22	Dry	OK	R.B.
3/20/12	6600471	4546240	2811468	32.21	Dry	OK	R.B.
3/21/12	6601825	4553570	2811531	32.20	Dry	OK	R.B.
3/22/12	6602985	4555560	2811604	32.29	Dry	OK	R.B.
3/23/12	6604261	4555580	2811675	32.31	Dry	OK	R.B.
3/26/12	6608870	4557910	2811942	32.37	Dry	OK	R.B.
3/27/12	6609899	4562700	2812013	32.34	Dry	OK	R.B.
3/28/12	6610801	4568110	2812086	32.31	Dry	OK	R.B.
3/29/12	6612157	4570240	2812177	32.30	Dry	OK	R.B.
3/30/12	6613526	4572520	2812267	32.29	Dry	OK	R.B.

LANDFILL SHEET			LAKE LEVEL DATA IN FEET NGVD	
2012 Mar	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1		0.005	38.80	29.30
2		0.005	38.80	29.40
3		0.006	38.90	29.40
4		0.005	38.90	29.40
5		0.003	39.10	29.40
6		0.004	39.10	29.30
7		0.004	39.10	29.30
8		0.006	39.10	29.30
9		0.007	39.00	29.30
10		0.007	39.00	29.30
11		0.004	39.00	29.20
12		0.007	38.90	29.10
13		0.007	38.90	28.50
14		0.007	38.80	28.20
15		0.007	38.70	27.90
16		0.006	38.50	27.80
17		0.005	38.40	27.80
18		0.005	38.30	27.80
19		0.006	38.30	27.70
20		0.005	38.30	27.60
21	1.14	0.005	38.20	27.60
22	0.30	0.005	38.40	27.80
23		0.005	38.40	28.20
24		0.007	38.40	28.40
25	1.00	0.006	38.60	28.60
26		0.006	38.70	28.90
27		0.004	38.60	28.80
28		0.004	38.60	28.30
29		0.006	38.50	28.20
30		0.005	38.40	28.10
31	0.40	0.006	38.30	28.10
TOTAL	2.84	0.170		
AVG		0.005		
MIN				
MAX	1.14	0.007		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: MARCH 2012

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	30.04	<i>inward</i>	GW-1	38.68	30.93
P-2	42.32	29.81	<i>inward</i>	GW-2	40.92	30.96
P-3	40.36	24.85	<i>inward</i>	GW-3	39.40	30.90
P-4	40.78	23.70	<i>inward</i>	GW-4	40.53	30.12
P-5	40.73	23.67	<i>inward</i>	GW-5	39.90	29.77
P-6	40.74	23.64	<i>inward</i>	GW-6	38.95	29.00
P-7	40.60	23.55	<i>inward</i>	GW-7	39.49	26.69
P-8	40.21	23.56	<i>inward</i>	GW-8	39.75	25.34
P-9	39.97	23.65	<i>inward</i>	GW-9	39.65	25.25
P-10	39.86	22.59	<i>inward</i>	GW-10	38.34	25.28
P-11	40.52	23.73	<i>inward</i>	GW-11	38.26	29.25
P-12	43.28	29.87	<i>inward</i>	GW-12	42.09	30.00
P-13	44.78	30.68	<i>inward</i>	GW-13	44.79	32.56
P-14	45.09	30.66	<i>inward</i>	GW-14	39.63	31.93
P-15	45.57	31.03	<i>inward</i>	GW-15	42.33	32.04
P-16	44.67	31.16	<i>inward</i>	GW-16	44.41	31.52
P-17	44.28	30.05	<i>inward</i>	GW-17	42.19	31.70

Comments:

Date Data Collected: March 13, 2012

Form Revised December 6, 2004