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November 7, 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

**Re: Manatee County Lena Road Landfill
Monthly Report – October 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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Dept. Of Environmental Protection
NOV 14 2012
Southwest District

EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

OCTOBER, 2012

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
NOV 14 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-Oct-12	79,510	1,960	81,470	49,800	131,270	0.00	0
02-Oct-12	23,310	250	23,560	12,800	36,360	0.69	3,147.927
03-Oct-12	19,000	170	19,170	11,400	30,570	0.57	2,600.461
04-Oct-12	16,520	830	17,350	11,600	28,950	1.64	7,482.029
05-Oct-12	36,190	2,650	38,840	19,100	57,940	0.25	1,140.553
06-Oct-12	0	0	0	0	0	0.00	0
07-Oct-12	0	0	0	0	0	0.00	0
08-Oct-12	81,620	5,020	86,640	52,600	139,240	0.02	91,244
09-Oct-12	22,240	870	23,110	14,600	37,710	0.00	0
10-Oct-12	21,740	1,270	23,010	16,400	39,410	0.00	0
11-Oct-12	20,400	1,230	21,630	14,800	36,430	0.00	0
12-Oct-12	20,400	1,070	21,470	14,900	36,370	0.00	0
13-Oct-12	0	0	0	0	0	0.00	0
14-Oct-12	0	0	0	0	0	0.00	0
15-Oct-12	72,080	5,990	78,070	47,000	125,070	0.23	1,049.309
16-Oct-12	25,640	870	26,510	16,300	42,810	0.00	0
17-Oct-12	25,070	3,090	28,160	14,600	42,760	0.00	0
18-Oct-12	22,620	760	23,380	14,700	38,080	0.00	0
19-Oct-12	23,390	880	24,270	14,800	39,070	0.00	0
20-Oct-12	0	0	0	0	0	0.00	0
21-Oct-12	0	0	0	0	0	0.00	0
22-Oct-12	60,050	6,270	66,320	37,100	103,420	0.00	0
23-Oct-12	20,120	1,390	21,510	14,500	36,010	0.04	182.489
24-Oct-12	21,670	1,400	23,070	13,100	36,170	0.00	0
25-Oct-12	24,150	1,130	25,280	14,200	39,480	0.00	0
26-Oct-12	25,480	630	26,110	14,700	40,810	0.00	0
27-Oct-12	0	0	0	0	0	0.00	0
28-Oct-12	0	0	0	0	0	0.00	0
29-Oct-12	67,790	8,340	76,130	39,000	115,130	0.00	0
30-Oct-12	18,600	8,910	27,510	11,200	38,710	0.00	0
31-Oct-12	16,840	8,420	25,260	11,700	36,960	0.00	0
TOTAL	764,430	63,400	827,830	480,900	1,308,730	3.44	15,694,013
Leachate Pumped as Percentage of Rainfall			8.7%	7.8%			

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	STAGE III	TOTAL			STAGE I	STAGE III
	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	LEACHATE/ RAINFALL	LEACHATE /RAINFALL
	(gallons)	(gallons)	(gallons)	(inches)	(gallons)	(%)	(%)
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	448,000	284,900	732,900	4.66	21,259,913	3.5%	3.4%
MAY	401,400	277,100	678,500	2.30	10,493,090	6.3%	6.7%
JUNE	726,920	611,600	1,338,520	24.07	109,812,468	1.1%	1.4%
JULY	1,061,690	831,300	1,892,990	13.25	60,449,323	2.9%	3.5%
AUGUST	909,100	665,100	1,574,200	11.62	53,012,916	2.8%	3.2%
SEPTEMBER	827,830	480,900	1,308,730	3.44	15,694,013	8.7%	7.8%
OCTOBER	827,830	480,900	1,308,730	3.44	15,694,013	8.7%	7.8%
NOVEMBER							
DECEMBER							
TOTAL	6,725,350	4,252,100	10,977,450	67.20	306,580,716	3.6%	3.5%

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

LECHATE OCTOBER 2012

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
10/1/12	7043481	4657840	2844457	32.69	29.64	OK	R.B.
10/2/12	7045812	4658090	2844585	32.69	29.56	OK	R.B.
10/3/12	7047712	4658260	2844699	32.75	29.52	OK	R.B.
10/4/12	7049364	4659090	2844615	32.78	29.50	OK	R.B.
10/5/12	7052983	4661740	2845006	33.06	31.76	OK	R.B.
10/8/12	7061145	4666760	2845532	33.19	31.47	OK	R.B.
10/9/12	7063369	4667630	2845678	33.23	31.30	OK	R.B.
10/10/12	7065543	4668900	2845842	33.24	31.23	OK	R.B.
10/11/12	7067583	4670130	2845990	33.26	31.10	OK	R.B.
10/12/12	7069623	4671200	2846139	33.27	30.97	OK	R.B.
10/15/12	7076831	4677190	2846609	33.29	30.57	OK	T.D.C.
10/16/12	7079395	4678060	2846772	33.33	30.44	OK	R.B.
10/17/12	7081902	4681150	2846918	33.33	30.36	OK	R.B.
10/18/12	7084164	4681910	2847065	33.35	30.26	OK	R.B.
10/19/12	7086503	4683790	2847213	33.37	30.14	OK	R.B.
10/22/12	7092508	4689060	2847584	33.37	29.80	OK	R.B.
10/23/12	7094520	4691040	2847729	33.37	29.78	OK	R.B.
10/24/12	7096687	4691850	2847860	33.38	29.68	OK	R.B.
10/25/12	7099162	4692980	2848002	33.38	29.60	OK	R.B.
10/26/12	7101650	4693610	2848149	33.39	29.50	OK	R.B.
10/29/12	7108429	4701950	2848539	33.34	29.25	S.G. # 2 Dry	T.D.C.
10/30/12	7110389	4710860	2848651	33.33	29.25	S.G. # 2 Dry	T.D.C.
10/31/12	7111973	472280	2848765	33.30	29.25	" # 2 Dry	T.D.C.

Landfill

LANDFILL SHEET			LAKE LEVEL DATA IN FEET NGVD	
2012 Oct	RAIN FALL	LEACHATE MGD	SOUTH (86 ACRE)	EAST (63 ACRE)
1	0.00	0.008	49.60	41.70
2	0.69	0.007	49.60	41.70
3	0.57	0.006	49.70	41.70
4	1.64	0.007	49.80	41.70
5	0.25	0.012	49.90	41.70
6	0.00	0.010	49.90	41.60
7	0.00	0.008	49.90	41.60
8	0.02	0.008	50.00	41.40
9	0.00	0.007	49.90	41.30
10	0.00	0.007	50.00	41.10
11	0.00	0.007	50.00	41.00
12	0.00	0.007	50.00	40.90
13	0.00	0.007	49.90	40.80
14	0.00	0.007	49.90	40.70
15	0.23	0.009	49.90	40.70
16	0.00	0.008	50.10	40.60
17	0.00	0.008	50.00	40.60
18	0.00	0.008	50.00	40.50
19	0.00	0.008	50.00	40.50
20	0.00	0.007	50.00	40.50
21	0.00	0.007	50.00	40.40
22	0.00	0.007	50.00	40.30
23	0.04	0.007	49.90	40.30
24	0.00	0.007	49.80	40.30
25	0.00	0.008	49.60	40.10
26	0.00	0.008	49.50	40.00
27	0.00	0.008	49.30	39.80
28	0.00	0.007	49.10	39.70
29	0.00	0.006	49.00	39.70
30	0.00	0.006	48.70	39.50
31	0.00	0.006	48.60	39.40
TOTAL	3.44	0.233		
AVG		0.008		
MIN				
MAX	1.64	0.012		

Fax # 9-708-5668

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: OCTOBER 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	30.34	<i>inward</i>	GW-1	38.68	33.07
P-2	42.32	30.15	<i>inward</i>	GW-2	40.92	33.42
P-3	40.36	25.21	<i>inward</i>	GW-3	39.40	33.27
P-4	40.78	23.76	<i>inward</i>	GW-4	40.53	32.45
P-5	40.73	23.67	<i>inward</i>	GW-5	39.90	32.00
P-6	40.74	23.58	<i>inward</i>	GW-6	38.95	31.26
P-7	40.60	23.58	<i>inward</i>	GW-7	39.49	29.11
P-8	40.21	23.53	<i>inward</i>	GW-8	39.75	28.16
P-9	39.97	23.68	<i>inward</i>	GW-9	39.65	28.68
P-10	39.86	22.66	<i>inward</i>	GW-10	38.34	28.40
P-11	40.52	23.88	<i>inward</i>	GW-11	38.26	29.82
P-12	43.28	30.27	<i>inward</i>	GW-12	42.09	31.41
P-13	44.78	30.76	<i>inward</i>	GW-13	44.79	33.44
P-14	45.09	30.70	<i>inward</i>	GW-14	39.63	34.04
P-15	45.57	31.12	<i>inward</i>	GW-15	42.33	35.00
P-16	44.67	31.24	<i>inward</i>	GW-16	44.41	35.89
P-17	44.28	30.15	<i>inward</i>	GW-17	42.19	33.65

Comments:

Date Data Collected: October 16, 2012

Form Revised December 6, 2004