

FLORIDA DEPARTMEN ENVIRONMENTAL PROTE



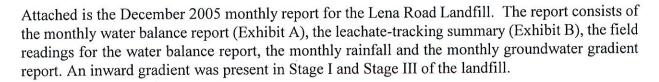
January 13, 2006

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 – December 2005

Dear Mr. Morris:



The groundwater monitoring wells and piezometers were replaced as required by the recently issued landfill operation permit. Piezometers P-3, P-4, P-5, P-6, and P-7 could not be installed on the north side of the Stage III Landfill due to the construction in this area related to replacement of the leachate collection system. To determine the gradient direction, the water level in GW-3 was compared to P-2; GW-4 and GW-5 was compared to PZ-12A; and GW-6 and GW-7 were compared to PZ-13. P-11 and GW-11 could not be installed on the south side of the Stage III Landfill due to the pending construction. Existing PZ-17 and GC-6 were left in place to measure the gradient direction on the south side of the Stage III Landfill. P-3, P-4, P-5, P-6, P-7, P-11 and GW-11 will be installed as soon as the leachate collection system replacement is completed.

If you should have any questions concerning this report, please contact me in our Orlando office at 407/647-7275, Ext. 4153.

Sincerely,

Joe Miller, P.E.

Senior Project Manager

Attachments

Mr. John Morris, P.G. January 13, 2006 Page 2

cc: Daniel T. Gray, Director, Utility Operations Department Gus DiFonzo, Solid Waste Manager Mike Gore/Jeanne Detweiler, Manatee County Landfill Division File – 120498.94 0100, December 2005

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EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

DECEMBER, 2005

	В	С	D	E	F	G	H
	LEACHATE	LEACHATE	LEACHATE	LEACHATE	TOTAL		
DATE	STAGE	STAGEI	STAGE I	STAGE III	LEACHATE	RAINFALL	RAINFALL
DATE				7.13		10411117122	
	Lift Station 1	Lift Station 2	TOTAL	TOTAL	PUMPED		
	(gallons)	(gallons)	(gallons)	(gallons)	(gallons)	(inches)	(galions)
01-Dec-05	13,520	3,000	16,520	114,000	130,520	0.00	0
02-Dec-05	13,090	10,770	23,860	127,800	151,660	0.00	0
03-Dec-05	0	0	0	0	0	0.00	0
04-Dec-05	0	0	0	0	0	0.00	0
05-Dec-05	39,920	9,030	48,950	336,400	385,350	0.12	547,466
06-Dec-05	14,100	1,650	15,750	88,600	104,350	0.03	136,866
07-Dec-05	0	1,600	1,600	0	1,600	0.05	228,111
08-Dec-05	0	0	0	0	0	0.15	684,332
09-Dec-05	0	2,950	2,950	0	2,950	0.00	0
10-Dec-05	0	0	0	0	0	0.00	0
11-Dec-05	0	0	0	0	0	0.04	182,489
12-Dec-05	0	12,100	12,100	0	12,100	0.00	0
13-Dec-05	0	0	0	0	0	0.00	0
14-Dec-05	0	5,800	5,800	0	5,800	0.00	0
15-Dec-05	12,960	3,240	16,200	67,800	84,000	0.04	182,489
16-Dec-05	21,100	3,480	24,580	102,200	126,780	0.00	0
17-Dec-05	0	0	0	0	0	0.33	1,505,530
18-Dec-05	0	0	0	0	0	0.00	0
19-Dec-05	79,870	8,000	87,870	312,000	399,870	0.00	0
20-Dec-05	13,050	2,770	15,820	115,100	130,920	0.00	0
21-Dec-05	12,760	2,950	15,710	100,700	116,410	0.00	0
22-Dec-05	11,990	2,660	14,650	128,700	143,350	0.00	0
23-Dec-05	12,760	2,900	15,660	117,800	133,460	0.00	0
24-Dec-05	0	0	0	0	0	0.00	0
25-Dec-05	0	0	0	0	0	0.09	410,599
26-Dec-05	0	0	0	0	0	0.00	0
27-Dec-05	0	0	0	0	0	0.00	0
28-Dec-05	78,060	15,490	93,550	494,800	588,350	0.00	0
29-Dec-05	18,220	4,000	22,220	106,700	128,920	0.02	91,244
30-Dec-05	13,870	2,560	16,430	80,400	96,830	0.00	0
31-Dec-05	0	0	0	0	0	0.00	0
TOTAL Leachate Pumpe	355,270	94,950	450,220 18.7%	2,293,000 147.1%	2,743,220	0.87	3,969,125

Column Notes:

A - Date of reading.		Stage 1	Stage III	TOTAL
B - Leachate pumped (gallons) from Stage I by lift station 1.		(acres)	(acres)	(acres)
C - Leachate pumped (gallons) from Stage I by lift station 2.	Initial Cover		66.0	66.0
D - Total Stage I leachate pumpage (B+C).	Intermediate Cover	102.0		102.0
E - Leachate pumped (gallons) from Stage III.	Closed	30.0		30.0
F - Total leachate pumped to WWTP storage tank (D+E).	TOTAL	132.0	66.0	198.0
G - Rainfall (inches) recorded on this date.	Open Area	102.0	66.0	168.0

H - Rainfall (gallons) calculated based on open area (G x Area x 27,156 gal/acre-in).

Comments

EXHIBIT B

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY LENA ROAD LANDFILL

MONTHLY LEACHATE TRACKING SUMMARY -- 2005

	В	С	D	E	F	G	Н
	STAGE	STAGE III	TOTAL			STAGE I LEACHATE/	STAGE III LEACHATE
MONTH	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	RAINFALL	/RAINFALL
	(gallons)	(gallons)	(gallons)	(inches)	(gallons)	. (%)	(%)
JANUARY	736,740	2,684,167	3,420,907	1.51	6,888,942	17.6%	99.2%
FEBRUARY	545,500	2,046,567	2,592,067	4.89	22,309,222	4.0%	23.4%
MARCH	779,900	5,231,667	6,011,567	5.34	24,362,218	5.3%	54.7%
APRIL.	607,730	2,340,867	2,948,597	4.57	20,849,314	4.8%	28.6%
MAY	636,620	2,336,167	2,972,787	3.92	17,883,875	5.9%	33.3%
JUNE	710,600	4,870,700	5,581,300	10.15	46,306,462	2.5%	26.8%
JULY	675,600	4,090,000	4,765,600	8.35	38,094,479	2.9%	27.3%
AUGUST	686,010	3,424,800	4,110,810	4.47	20,393,092	5.5%	42.7%
SEPTEMBER	600,670	2,375,900	2,976,570	1.38	6,295,854	15.7%	96.1%
OCTOBER	578,770	3,971,200	4,549,970	4.00	18,248,852	5.2%	55.4%
NOVEMBER	570,100	4,094,400	4,664,500	2.81	12,819,819	7.3%	81.3%
DECEMBER	450,220	2,293,000	2,743,220	0.87	3,969,125	18.7%	147.1%
TOTAL	7,578,460	39,759,435	47,337,895	52.26	238,421,253	5.2%	42.4%

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

	MOCH	SHEET
	INDFILL	- onee i
2005 Dec	RAIN FALL	LEACHATE
1	0 00	MGD 0.300
2	0.00	0.300
3	0.00	0.173
4	0.00	0.197
5	0.12	0.190
6	0.03	0.190
7	0.05	0.103
8	0.15	0.174
9	0 00	0.193
10	0.00	0.112
11	0.04	0.097
12	0.00	0.126
13	0.00	0.096
14	0.00	0.127
15	0.04	0.300
16	0.00	0.163
17	0.33	0.163
18	0.00	0.175
19	0.00	0.182
20	0.00	0.163
21	0.00	0 159
22	0.00	0.168
23	0.00	0,158
24	0.00	0.129
25	0.09	0.130
26	0.00	0.112
27	0.00	0.104
28	0.00	0 108
29 30	0.02 0.00	0 109 0.089
30	0.00	0.089
TOTAL	0.87	4.819
31 TOTAL AVG MIN MAX	0.07	0.155
MIN		000
MAX	0.33	0.300

Fex# 9-741-3396

LEACHATE METER READINGS DECEMBER 2005

				-		
	LEACHATE		STORMWATER	WATER	COMMENTS	NAME
METER#1	METER#2	METER#3	S. G. #1	S. G. #2		
2703122	1732684	206 9 423	34.00	30.50	OK	c'm;
12/2/05 270443/	1973 3761	1070702	33.90	30.59	06	dus,
1215/05 2708423	119911541	2074065	33.90	30.59		C.M.
12/6/05/2709833	1734829	2074951	33.86	.36,35	δK	27.20
12/7/05 2 7 0 9 8 3.3	1234989	1564608	33.84	30,36	meters 143 NO working	Z X
12/8/05 2 7 0 98 3 3	1734989	3074951	33.84	30.36	1,2, +3 NOT WORKING	XX
12/9/05/2 20 98.33	1235284	1264608	33.84	30,36	1 4 3 NOT WORKING	N.K.
12/12/05/2709833	1736497	1344951	33.80	38.08	Western 147 85 still wit	cm.
2709833	45 4074	2074957	53.79	30.40	100 11.12 5 12 1.11 001 100 11.12 5 1.12 001	, rop
12/15/05 27/1/29	1737398	2075139	33.80	30.30	Arrange & Land of Software	
12/16/05 27/3239	1434641	15994.00	33.79	30.30	70	cons
12/19/05 2 72/236	1738546	1669608	33.76	30.30	OH	1.2
12/20/05 3 7 3 2 5 37	1738823	4080922	33,74	30,30	DM	XX
12/21/05/2 2/3 3807	-	2081929	33.72	30.22	OX	DA
12/22/05 12 7.2 5.006		2128306	33,22	30.18	ON	D. D.
12/23/05 2 7 2 6 2 8 A	4	2084394	33.20	30.08	OM	X.X
	-					
12/27/05					- LANGE TRAFF	Ţ
12128105 273 4088	1741333	2089342	33.67	30.00	ON	Z.X.
12/29/05 2735910		3090409	33.67	29.75	04	K.K
12/30/05/2 7 3 72/9 77	<u> </u>	2091213	33.67	29.65	OH	17.3.
						j