



An employee-owned company

February 14, 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 – January 2006**

Dear Mr. Morris:

This letter includes the following monthly reports: Monthly Water Balance Report (Exhibit A), Leachate-tracking Summary (Exhibit B), Leachate Meter Readings, Monthly Rainfall and the Monthly Groundwater Gradient Report. An inward gradient was present in Stage I and Stage III of the landfill.

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, GW-4 and GW-5 were compared to the leachate reading in P-2; 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 call me at 407/647-7275, Ext. 4153.

Sincerely,

Joe Miller, P.E.
Senior Project Manager

Attachments

- 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
 JANUARY, 2006

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-06	0	0	0	0	0	1.29	5,885,255
02-Jan-06	0	0	0	0	0	0.00	0
03-Jan-06	49,220	11,270	60,490	425,800	486,290	0.13	593,088
04-Jan-06	14,380	2,940	17,320	112,200	129,520	0.01	45,622
05-Jan-06	12,560	2,970	15,530	128,500	144,030	0.00	0
06-Jan-06	17,200	3,480	20,680	123,500	144,180	0.00	0
07-Jan-06	0	0	0	0	0	0.00	0
08-Jan-06	0	0	0	0	0	0.00	0
09-Jan-06	30,610	6,690	37,300	365,800	403,100	0.00	0
10-Jan-06	10,700	2,360	13,060	133,400	146,460	0.00	0
11-Jan-06	13,660	2,920	16,580	130,500	147,080	0.00	0
12-Jan-06	14,960	3,200	18,160	97,700	115,860	0.00	0
13-Jan-06	15,610	3,450	19,060	138,200	157,260	0.01	45,622
14-Jan-06	0	0	0	0	0	0.00	0
15-Jan-06	0	0	0	0	0	0.00	0
16-Jan-06	0	0	0	0	0	0.00	0
17-Jan-06	56,980	12,340	69,320	462,500	531,820	0.09	410,599
18-Jan-06	10,790	2,370	13,160	88,000	101,160	0.25	1,140,553
19-Jan-06	6,590	1,580	8,170	96,300	104,470	0.00	0
20-Jan-06	9,970	2,640	12,610	91,100	103,710	0.00	0
21-Jan-06	0	0	0	0	0	0.00	0
22-Jan-06	0	0	0	0	0	0.00	0
23-Jan-06	31,990	8,610	40,600	232,800	273,400	0.00	0
24-Jan-06	1,260	3,250	4,510	83,000	87,510	0.00	0
25-Jan-06	0	0	0	68,600	68,600	0.00	0
26-Jan-06	0	0	0	68,200	68,200	0.00	0
27-Jan-06	0	20	20	69,800	69,820	0.00	0
28-Jan-06	0	0	0	0	0	0.00	0
29-Jan-06	0	0	0	0	0	0.00	0
30-Jan-06	0	0	0	212,400	212,400	0.00	0
31-Jan-06	1,090	0	1,090	61,300	62,390	0.00	0
TOTAL	297,570	70,090	367,660	3,189,600	3,557,260	1.78	8,120,739
Leachate Pumped as Percentage of Rainfall			7.5%	100.0%			

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 -- 2006**

	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	367,660	3,189,600	3,557,260	1.78	8,120,739	7.5%	100.0%
FEBRUARY							
MARCH							
APRIL							
MAY							
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL	367,660	3,189,600	3,557,260	1.78	8,120,739	7.5%	100.0%

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

LEACHATE METER READINGS
JANUARY 2006

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER # 1	METER # 2	METER # 3	S. G. # 1	S. G. # 2		
1/2/05							
1/3/05	2742219	1743006	2095471	33.88	30.35	OK	A.S.
1/4/05	2743657	1743300	2096593	33.91	30.33	OK	A.S.
1/5/05	2744913	1743597	2097878	33.90	30.33	OK	C.H.
1/6/05	2746633	1743945	2099113	33.89	Construction	OK	A.S.
1/9/05	2749694	1744614	2102771	33.83	CONSTRUCTION	OK	RB
1/10/05	2750764	1744850	2104105	33.82	"	OK	RB
1/11/05	2752130	1745142	2105410	33.81	"	OK	RB
1/12/05	2753626	1745462	2106387	33.81	"	OK	RB
1/13/05	2755187	1745807	2107769	33.82	"	OK	RB
1/16/05							
1/17/05	2760885	1747041	2112394	33.81	"	OK	RB
1/18/05	2761964	1747278	2113274	33.79	"	OK	RB
1/19/05	2762623	1747436	2114237	33.78	"	OK	A.S.
1/20/05	2763620	1747700	2115178	33.57	"	OK	A.S.
1/23/05	2766819	1748561	2117476	33.30	"	OK	RB
1/24/05	2766945	1748806	2118306	33.30	"	OK	RB
1/25/05	2766945	1748886	2118992	33.30	"	OK - SHUT DOWN FOR CALIBRATION	RB
1/26/05	2766945	1748886	2119674	33.29	"	"	RB
1/27/05	2766945	1748888	2120372	33.27	"	"	RB
1/30/05	2766945	1748888	2122496	33.30	"	"	AD
1/31/05	2767054	1748888	2123109	33.30	"	"	AD

Landfill

Monthly
Rainfall
for
January 2006

LANDFILL SHEET		
DATE	RAIN FALL	LEACHATE MGD
1	1.29	0.079
2	0.00	0.169
3	0.13	0.097
4	0.01	0.107
5	0.00	0.166
6	0.00	0.160
7	0.00	0.150
8	0.00	0.128
9	0.00	0.139
10	0.00	0.161
11	0.00	0.148
12	0.00	0.142
13	0.01	0.156
14	0.00	0.133
15	0.00	0.119
16	0.00	0.118
17	0.09	0.120
18	0.25	0.114
19	0.00	0.107
20	0.00	0.102
21	0.00	0.088
22	0.00	0.092
23	0.00	0.152
24	0.00	0.104
25	0.00	0.078
26	0.00	0.074
27	0.00	0.076
28	0.00	0.075
29	0.00	0.076
30	0.00	0.075
31	0.00	0.145
TOTAL	1.78	3.650
AVG.		0.118
MIN		
MAX	1.29	0.169

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