



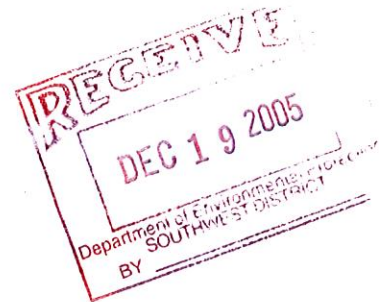
An employee-owned company

LR 39884

G-mud

December 9, 2005

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 – November 2005**

Dear Mr. Morris:

Attached is the November 2005 monthly report for the Lena Road Landfill. The report consists of the monthly water balance report (Exhibit A), the leachate-tracking summary (Exhibit B), the field readings for the water balance report, the 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 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

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, November 2005

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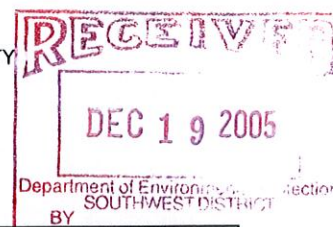
EXHIBIT A

MANATEE COUNTY SOLID WASTE MANAGEMENT FACILITY

LENA ROAD LANDFILL

MONTHLY WATER BALANCE REPORT

NOVEMBER, 2005



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-Nov-05	16,430	3,650	20,080	134,100	154,180	1.62	7,390,785
02-Nov-05	19,380	4,220	23,600	203,800	227,400	0.00	0
03-Nov-05	14,690	3,070	17,760	411,600	429,360	0.00	0
04-Nov-05	15,130	3,050	18,180	165,400	183,580	0.00	0
05-Nov-05	0	0	0	0	0	0.00	0
06-Nov-05	0	0	0	0	0	0.00	0
07-Nov-05	49,560	10,590	60,150	428,700	488,850	0.00	0
08-Nov-05	14,860	3,330	18,190	121,700	139,890	0.00	0
09-Nov-05	14,750	3,310	18,060	142,700	160,760	0.00	0
10-Nov-05	15,410	3,600	19,010	131,100	150,110	0.00	0
11-Nov-05	0	0	0	0	0	0.00	0
12-Nov-05	0	0	0	0	0	0.00	0
13-Nov-05	0	0	0	0	0	0.00	0
14-Nov-05	58,980	13,060	72,040	548,800	620,840	0.00	0
15-Nov-05	15,110	3,370	18,480	126,300	144,780	0.00	0
16-Nov-05	15,270	3,650	18,920	120,600	139,520	0.00	0
17-Nov-05	14,980	3,390	18,370	93,200	111,570	0.00	0
18-Nov-05	15,870	3,450	19,320	130,000	149,320	0.00	0
19-Nov-05	0	0	0	0	0	0.01	45,622
20-Nov-05	0	0	0	0	0	0.00	0
21-Nov-05	47,190	10,760	57,950	360,200	418,150	0.07	319,355
22-Nov-05	18,140	3,880	22,020	117,400	139,420	0.00	0
23-Nov-05	14,850	2,990	17,840	111,000	128,840	0.00	0
24-Nov-05	0	0	0	0	0	0.00	0
25-Nov-05	0	0	0	0	0	0.00	0
26-Nov-05	0	0	0	0	0	0.00	0
27-Nov-05	0	0	0	0	0	0.00	0
28-Nov-05	0	0	0	0	0	0.02	91,244
29-Nov-05	77,440	35,850	113,290	543,300	656,590	1.09	4,972,812
30-Nov-05	13,810	3,030	16,840	204,500	221,340	0.00	0
			0		0		0
TOTAL	451,850	118,250	570,100	4,094,400	4,664,500	2.81	12,819,819
Leachate Pumped as Percentage of Rainfall			7.3%	81.3%			

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 -- 2005

	B	C	D	E	F	G	H
	STAGE I	STAGE III	TOTAL			STAGE I	STAGE III
MONTH	LEACHATE	LEACHATE	LEACHATE	RAINFALL	RAINFALL	LEACHATE/ RAINFALL	LEACHATE /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							
TOTAL	7,128,240	37,466,435	44,594,675	51.39	234,452,128	5.0%	40.7%

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

**LEACHATE METER READINGS
NOVEMBER 2005**

DATE	LEACHATE			STORMWATER		COMMENTS	NAME
	METER #1	METER #2	METER #3	S. G. #1	S. G. #2		
11/1/05	2658228	1720924	2028680	34.30	30.52	OK	M.S.
11/2/05	2660166	1721346	2030718	34.81	30.70	OK	M.S.
11/3/05	2661635	1721653	2034834	34.85	30.59	OK	M.S.
11/4/05	2663148	1721958	2036488	34.85	30.55	OK	M.S.
11/7/05	2668104	1723017	2040775	34.85	30.55	OK	M.S.
11/8/05	2669590	1723350	2041992	34.90	30.52	OK	M.S.
11/9/05	2671065	1723681	2043419	34.90	30.50	OK	M.S.
11/10/05	2672606	1724041	2044730	34.90	30.50	OK	M.S.
11/11/05							
11/14/05	2678504	1725347	2050218	34.85	30.50	OK	M.S.
11/15/05	2680015	1725684	2051481	34.85	30.50	OK	M.S.
11/16/05	2681542	1726049	2052687	34.64	30.50	OK	M.S.
11/17/05	2683040	1726388	2053619	34.52	30.49	OK	M.S.
11/18/05	2684620	1726733	2054910	34.44	30.43	OK	M.S.
11/21/05	2689346	1727809	2058521	34.30	30.40	OK	C.M.
11/22/05	26891160	1728194	2059695	34.25	30.40	OK	C.M.
11/23/05	2692645	1728496	2060805	34.25	30.50	OK	C.M.
11/25/05							
11/28/05							
11/29/05	2700389	1732081	2066238	34.00	30.30	OK	C.M.
11/30/05	2701770	1732384	2068283	34.10	30.50	OK	C.M.



Landfill

LANDFILL SHEET		
2005 Nov	RAIN FALL	LEACHATE MGD
1	1.62	0.134
2	0.00	0.433
3	0.00	0.005
4	0.00	0.162
5	0.00	0.154
6	0.00	0.143
7	0.00	0.136
8	0.00	0.011
9	0.00	0.154
10	0.00	0.147
11	0.00	0.154
12	0.00	0.145
13	0.00	0.140
14	0.00	0.136
15	0.00	0.131
16	0.00	0.124
17	0.00	0.100
18	0.00	0.151
19	0.01	0.145
20	0.00	0.105
21	0.07	0.124
22	0.00	0.125
23	0.00	0.118
24	0.00	0.094
25	0.00	0.081
26	0.00	0.081
27	0.00	0.081
28	0.02	0.081
29	1.09	0.081
30	0.00	0.000
TOTAL	2.81	3.676
AVG		0.123
MIN		
MAX	1.62	0.433