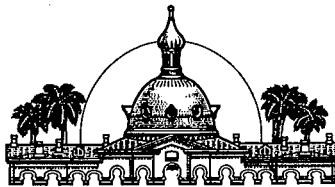


1089
Project # 100494



Hillsborough County
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January 10, 2007

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

Dept. of Environmental
Protection
JAN 12 2007

RE: Southeast County Landfill – Leachate Data Quarterly Report

Dear Ms. Pelz:

In accordance with Specific Conditions No. 16 of Permit No. 35435-006-SO, the Solid Waste Management Department (SWMD) is submitting the quarterly Leachate Water Balance submittal for the Southeast County Landfill for the quarter ending January 15, 2007.

The data is being submitted as separate monthly reports for October, November and December 2006. The information includes the leachate level in Pump Station B (PS-B). PS-B was below the 24-inch normal operation level during this quarter except for November 12, 20 and 24 due to pump malfunctions. These malfunctions were immediately corrected. On December 19 and 20 the level was above the 24-inch normal level due to the pump station being shut-down for jet cleaning of the access pipe and suction line.

Also attached is the top of the phosphatic clay liner elevation at the Pump Station B Sump.

Please advise should you have any questions concerning the attached submittal.

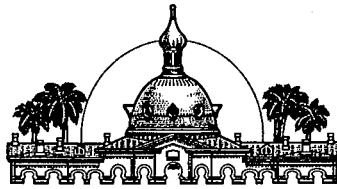
Sincerely,

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachment

xc: Larry Ruiz, SWMD
Walter Gray, SWMD
Joe O'Neill, JEA
Paul Schipfer, EPC

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January 10, 2007

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

RE: Southeast County Landfill --December 2006 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report Form for the month of December 2006. In addition, the SWMD is providing the December 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO, Specific Condition No. 16.

As initiated with the April 1996 report, the Landfill leachate information for December 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches except for December 19 and 20 due to the pump station being shut-down for jet cleaning of the access pipe and suction line. The average depth of leachate in the PS-B sump for the recorded days in December 2006 was 19.9 inches.

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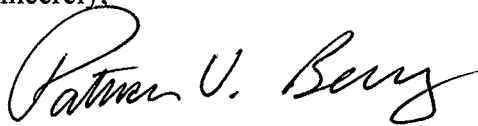
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Ms. Susan J. Pelz
January 10, 2007
Page Two

Please advise should you have any questions concerning the information provided.

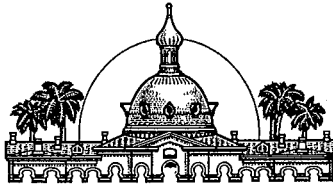
Sincerely,

A handwritten signature in black ink, reading "Patricia V. Berry". The signature is written in a cursive style with a large initial "P" and a long, sweeping underline.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea1206.dep



Hillsborough County
Florida

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Patricia G. Bean

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MEMORANDUM

DATE: January 8, 2007

TO: Patricia Berry, Section Manager, Solid Waste Management Department

FROM: *for* Larry Ruiz, General Manager II, Solid Waste Management Department
Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT: Leachate Water Balance Report Forms for December 2006
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Department (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI and Sections 7-8 of the Capacity Expansion for December 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 1.98 inch of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

January 8, 2007

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 3.0 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the average depth of effluent stored in Pond B was 1.8 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches except for December 19 and 20 due to the pump station being shut-down for jet cleaning of the access pipe and suction line. The average depth of leachate in the PS-B sump was 19.9 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 378 gallons. A total of 11,715 gallons of leachate was pumped this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 36,039 gallons. A total of 1,117,207 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

January 8, 2007

Page 3 of 5

Leachate Pumped from Sections 7-8 Leak Detection System (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 171 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. Normally the quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VIII). This month an estimated 118,495 gallons of leachate was pumped to the MLPS from Sections 7-8.

Total Leachate Pumped to LTRF (Column X)

Column X presents the total quantity of leachate pumped to the LTRF through the MLPS from Phases I-VI and from Sections 7-8. This month a total of 1,235,702 gallons of leachate was pumped from Phases I-VI and Sections 7-8.

Leachate in 575,000-Gallon Tank (Column XI)

Column XI presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. On November 27, 2006, the SWMD began to empty the tank for inspection. The average daily amount of leachate stored in the tank this month was estimated at 70,700 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. On November 27, 2006, the SWMD began shut-down procedures in preparation for tankage inspection. This month leachate was not treated at the LTRF.

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 1,373,329 gallons of leachate was hauled off site.

MEMORANDUM

January 8, 2007

Page 4 of 5

Leachate Dust Control (Sprayed) (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month leachate was not used for dust control.

Pond A Storage (Column XV)

Column XV presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 106,600 gallons of effluent was stored in Pond A.

Pond B Storage (Column XVI)

Column XVI presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). The volume of the pond at varying depths is estimated using AutoCAD software and calculations based on the conic method for reservoir volumes. Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month a daily average of 77,800 gallons of effluent was stored in Pond B.

Effluent Sprayed at Pond B (Column XVII)

Column XVII presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B. Effluent was not sprayed at Pond B this month.

Effluent Irrigation (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 93,537 gallons of effluent was used as spray irrigation.

MEMORANDUM

January 8, 2007

Page 5 of 5

Effluent Dust Control (Sprayed) (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XX)

Column XX presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month effluent was not hauled off site.

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 74,800 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 1,235,702 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,373,329 gallons. The change in storage for the month of December decreased by 137,627 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
DECEMBER 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (in.)	Estimated Depth at PS-B (in.)	Leachate Pumped to PS-B from TPS-6 (gal.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped from Sections 7-8 Leak Det. (gal.)	Leachate Pumped to MLPS from Sections 7-8 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.00	3.5	1.8	19.8	0	38,590	0	2,500	41,090	158,000	0	58,414	0	140,000	64,000	0	44,535	0	0	35,600
2	0.00	3.0	1.5	22.2	310	39,661	0	2,970	42,631	156,000	0	87,627	0	108,000	44,000	0	49,002	0	0	39,200
3	0.00	3.0	0.3	18.3	160	37,364	0	2,080	39,444	115,000	0	0	0	108,000	1,600	0	0	0	0	0
4	0.00	3.0	0.3	20.2	90	35,785	0	1,370	37,155	122,000	0	51,989	0	108,000	1,600	0	0	0	0	0
5	0.00	3.0	1.7	19.5	520	33,532	0	2,070	35,602	70,000	0	64,072	0	108,000	57,000	0	0	0	0	0
6	0.00	3.0	1.7	19.7	610	33,763	0	2,610	36,373	60,000	0	57,092	0	108,000	57,000	0	0	0	0	0
7	0.00	3.0	1.2	17.6	700	38,130	0	2,270	40,400	60,000	0	57,165	0	108,000	28,000	0	0	0	0	0
8	0.00	3.0	1.0	23.1	890	36,308	0	0	36,308	65,000	0	36,428	0	108,000	19,000	0	0	0	0	0
9	0.00	3.0	1.1	19.2	0	29,688	0	60	29,748	65,000	0	0	0	108,000	23,000	0	0	0	0	0
10	0.00	3.0	1.6	19.1	220	31,367	0	4,040	35,407	65,000	0	0	0	108,000	51,000	0	0	0	0	0
11	0.00	2.9	2.0	18.8	0	33,487	0	1,960	35,447	65,000	0	49,834	0	103,000	80,000	0	0	0	0	0
12	0.00	2.9	1.7	16.9	150	34,863	0	0	34,863	65,000	0	69,128	0	103,000	57,000	0	0	0	0	0
13	0.17	2.9	1.7	21.9	0	37,966	0	3,940	41,906	65,000	0	64,243	0	103,000	57,000	0	0	0	0	0
14	0.13	2.9	1.5	20.2	0	39,367	68	0	39,367	65,000	0	61,832	0	103,000	44,000	0	0	0	0	0
15	0.00	2.9	1.5	21.0	0	44,028	0	90	44,118	53,000	0	51,127	0	103,000	44,000	0	0	0	0	0
16	0.00	2.9	1.2	10.8	0	45,448	0	120	45,568	53,000	0	36,522	0	103,000	28,000	0	0	0	0	0
17	0.00	2.9	1.4	18.1	0	34,085	0	0	34,085	53,000	0	0	0	103,000	38,000	0	0	0	0	0
18	0.00	2.9	1.6	20.1	0	33,931	0	1,640	35,571	53,000	0	43,842	0	103,000	51,000	0	0	0	0	0
19	0.00	2.9	1.0	27.0	0	2,298	0	0	2,298	53,000	0	29,215	0	103,000	19,000	0	0	0	0	0
20	0.00	2.9	1.5	33.9	0	48,486	0	0	48,486	65,000	0	41,206	0	103,000	44,000	0	0	0	0	0
21	0.00	2.9	1.8	19.9	310	45,847	0	120	45,967	58,000	0	41,253	0	103,000	64,000	0	0	0	0	0
22	0.00	2.9	1.9	20.0	0	41,087	0	2,110	43,197	58,000	0	82,254	0	103,000	72,000	0	0	0	0	0
23	0.38	2.9	1.8	11.8	850	39,567	78	2,510	42,077	65,000	0	36,518	0	103,000	64,000	0	0	0	0	0
24	0.00	2.9	1.8	18.8	340	39,114	25	2,930	42,044	65,000	0	0	0	103,000	64,000	0	0	0	0	0
25	1.30	2.9	2.3	20.8	0	41,321	0	3,000	44,321	65,000	0	0	0	103,000	106,000	0	0	0	0	0
26	0.00	3.0	3.3	15.5	0	43,880	0	47,430	91,310	65,000	0	0	0	108,000	202,000	0	0	0	0	0
27	0.00	3.0	3.6	19.4	2,120	34,237	0	13,160	47,397	65,000	0	72,131	0	108,000	234,000	0	0	0	0	0
28	0.00	3.0	3.5	21.1	1,320	30,946	0	8,130	39,076	70,000	0	61,941	0	108,000	223,000	0	0	0	0	0
29	0.00	3.0	3.3	22.2	1,020	30,483	0	5,810	36,293	58,000	0	42,513	0	108,000	202,000	0	0	0	0	0
30	0.00	3.0	3.3	22.7	1,150	31,893	0	5,575	37,468	48,000	0	118,554	0	108,000	202,000	0	0	0	0	0
31	0.00	3.0	3.0	17.3	955	30,685	0	0	30,685	48,000	0	58,429	0	108,000	172,000	0	0	0	0	0
Total	1.98				11,715	1,117,207	171	118,495	1,235,702		0	1,373,329	0				93,537	0	0	74,800
Daily Average		3.0	1.8	19.9	378	36,039	6	3,822	39,861	70,700				106,600	77,800	0				
Mo. Average													0				3,000	0	0	2,410

projects\balance\2006\12-06bal.xls (Revised by ler 1/08/07)

Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.
7. Column V, PPS-B sensor reading plus 9 inches.
8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
9. Column XI, calculated from depth in 575,000 gal. leachate tank.
10. Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
11. Column XXI includes 80% of the daily values from Columns XIV, XVIII, and XIX plus 5% of the daily values from column XVII.

**TABLE 2. FIELD DATA ENTRY FORM
DECEMBER 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVI	XVIII	XIX
Day	Reading PS-B (in.)	Sections 7-8 Leak Det. (gal.)	Sections 7-8 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	10.8	167,102	12,403,050	5,815,570	2,732,486	5.50	58,414	0	0	0.00	3.5	1.8	0.0	0	44,535	0	0	0
2	13.2	167,102	12,406,020	5,815,880	2,772,147	5.42	87,627	0	0	0.00	3.0	1.5	0.0	0	49,002	0	0	0
3	9.3	167,102	12,408,100	5,816,040	2,809,511	4.00	0	0	0	0.00	3.0	0.3	0.0	0	0	0	0	0
4	11.2	167,102	12,409,470	5,816,130	2,845,296	4.25	39,959	12,030	0	0.00	3.0	0.3	0.0	0	0	0	0	0
5	10.5	167,102	12,411,540	5,816,650	2,878,828	2.42	51,809	12,263	0	0.00	3.0	1.7	0.0	0	0	0	0	0
6	10.7	167,102	12,414,150	5,817,260	2,912,591	2.08	51,066	6,026	0	0.00	3.0	1.7	0.0	0	0	0	0	0
7	8.6	167,102	12,416,420	5,817,960	2,950,721	2.08	51,165	6,000	0	0.00	3.0	1.2	0.0	0	0	0	0	0
8	14.1	167,102	12,416,420	5,818,850	2,987,029	2.25	36,428	0	0	0.00	3.0	1.0	0.0	0	0	0	0	0
9	10.2	167,102	12,416,480	5,818,850	3,016,717	2.25	0	0	0	0.00	3.0	1.1	0.0	0	0	0	0	0
10	10.1	167,102	12,420,520	5,819,070	3,048,084	2.25	0	0	0	0.00	3.0	1.6	0.0	0	0	0	0	0
11	9.8	167,102	12,422,480	5,819,070	3,081,571	2.25	43,834	6,000	0	0.00	2.9	2.0	0.0	0	0	0	0	0
12	7.9	167,102	12,422,480	5,819,220	3,116,434	2.25	51,128	18,000	0	0.00	2.9	1.7	0.0	0	0	0	0	0
13	12.9	167,102	12,426,420	5,819,220	3,154,400	2.25	64,243	0	0	0.17	2.9	1.7	0.0	0	0	0	0	0
14	11.2	167,170	12,426,420	5,819,220	3,193,767	2.25	43,832	18,000	0	0.13	2.9	1.5	0.0	0	0	0	0	0
15	12.0	167,170	12,426,510	5,819,220	3,237,795	1.83	51,127	0	0	0.00	2.9	1.5	0.0	0	0	0	0	0
16	1.8	167,170	12,426,630	5,819,220	3,283,243	1.83	36,522	0	0	0.00	2.9	1.2	0.0	0	0	0	0	0
17	9.1	167,170	12,426,630	5,819,220	3,317,328	1.83	0	0	0	0.00	2.9	1.4	0.0	0	0	0	0	0
18	11.1	167,170	12,428,270	5,819,220	3,351,259	1.83	43,842	0	0	0.00	2.9	1.6	0.0	0	0	0	0	0
19	18.0	167,170	12,428,270	5,819,220	3,353,557	1.83	29,215	0	0	0.00	2.9	1.0	0.0	0	0	0	0	0
20	24.9	167,170	12,428,270	5,819,220	3,402,043	2.25	29,206	12,000	0	0.00	2.9	1.5	0.0	0	0	0	0	0
21	10.9	167,170	12,428,390	5,819,530	3,447,890	2.00	29,253	12,000	0	0.00	2.9	1.8	0.0	0	0	0	0	0
22	11.0	137	12,430,500	5,819,530	3,488,977	2.00	70,254	12,000	0	0.00	2.9	1.9	0.0	0	0	0	0	0
23	2.8	215	12,433,010	5,820,380	3,528,544	2.25	36,518	0	0	0.38	2.9	1.8	0.0	0	0	0	0	0
24	9.8	240	12,435,940	5,820,720	3,567,658	2.25	0	0	0	0.00	2.9	1.8	0.0	0	0	0	0	0
25	11.8	240	12,438,940	5,820,720	3,608,979	2.25	0	0	0	1.30	2.9	2.3	0.0	0	0	0	0	0
26	6.5	240	12,486,370	5,820,720	3,652,859	2.25	0	0	0	0.00	3.0	3.3	0.0	0	0	0	0	0
27	10.4	240	12,499,530	5,822,840	3,687,096	2.25	66,131	6,000	0	0.00	3.0	3.6	0.0	0	0	0	0	0
28	12.1	240	12,507,660	5,824,160	3,718,042	2.42	43,941	18,000	0	0.00	3.0	3.5	0.0	0	0	0	0	0
29	13.2	240	12,513,470	5,825,180	3,748,525	2.00	36,513	6,000	0	0.00	3.0	3.3	0.0	0	0	0	0	0
30	13.7	240	12,519,045	5,826,330	3,780,418	1.67	118,554	0	0	0.00	3.0	3.3	0.0	0	0	0	0	0
31	8.3	240	12,519,045	5,827,285	3,811,103	1.67	58,429	0	0	0.00	3.0	3.0	0.0	0	0	0	0	0
Totals																		

projects\balance\2006\12-06bal.xls (Revised by ler 1/08/07)

Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
3. Column IV includes quantities from leak detection system.
4. Column XI, trace is less than 0.01 inches.
5. Columns III, IV, V, VI, VIII, IX, X, XIV, XV, XVI, XVII and XVIII are quantities from flow meters.
6. Columns XII and XIII measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Sections 7-8 acres
Open	0	6
Intermediate	139.4	13.3
Final	23	0
Not Opened	0	0

**TABLE 3. 2006 MONTHLY LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7-8 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.10	0	58,666	1,146,298	235,508	160,066	1,034,200	0	0	985,357	1,204,964	1,429,774	-224,810
April	0.17	0	26,367	1,073,620	162,705	20,042	1,119,100	0	0	857,079	1,099,987	1,301,847	-201,860
May	1.22	0	38,814	1,057,227	30,067	0	1,186,800	0	0	1,132,512	1,096,041	1,216,867	-120,826
June	8.33	0	105,196	1,035,231	139,447	0	1,017,100	84,617	0	970,248	1,140,427	1,156,547	-16,120
July	15.67	0	50,052	1,238,861	460,155	0	894,600	686,403	0	269,090	1,288,913	1,354,755	-65,842
August	7.89	0	66,496	1,342,399	706,832	3,064	831,600	285,856	0	596,768	1,408,895	1,541,496	-132,601
September	6.46	0	81,290	1,288,709	731,492	0	913,600	637,975	0	329,191	1,369,999	1,645,092	-275,093
October	1.07	0	39,395	1,284,246	207,451	12,000	1,160,700	0	0	1,100,088	1,323,641	1,380,151	-56,510
November	1.00	0	135,600	1,105,957	418,020	0	991,500	0	0	920,257	1,241,557	1,409,520	-167,963
December	1.98	0	118,495	1,117,207	1,373,329	0	0	0	0	93,537	1,235,702	1,373,329	-137,627
YTD Total	48.21	0	879,000	13,900,165	4,892,477	282,691	11,380,900	1,767,442	0	9,113,796	14,779,165	16,556,068	-1,776,903

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Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

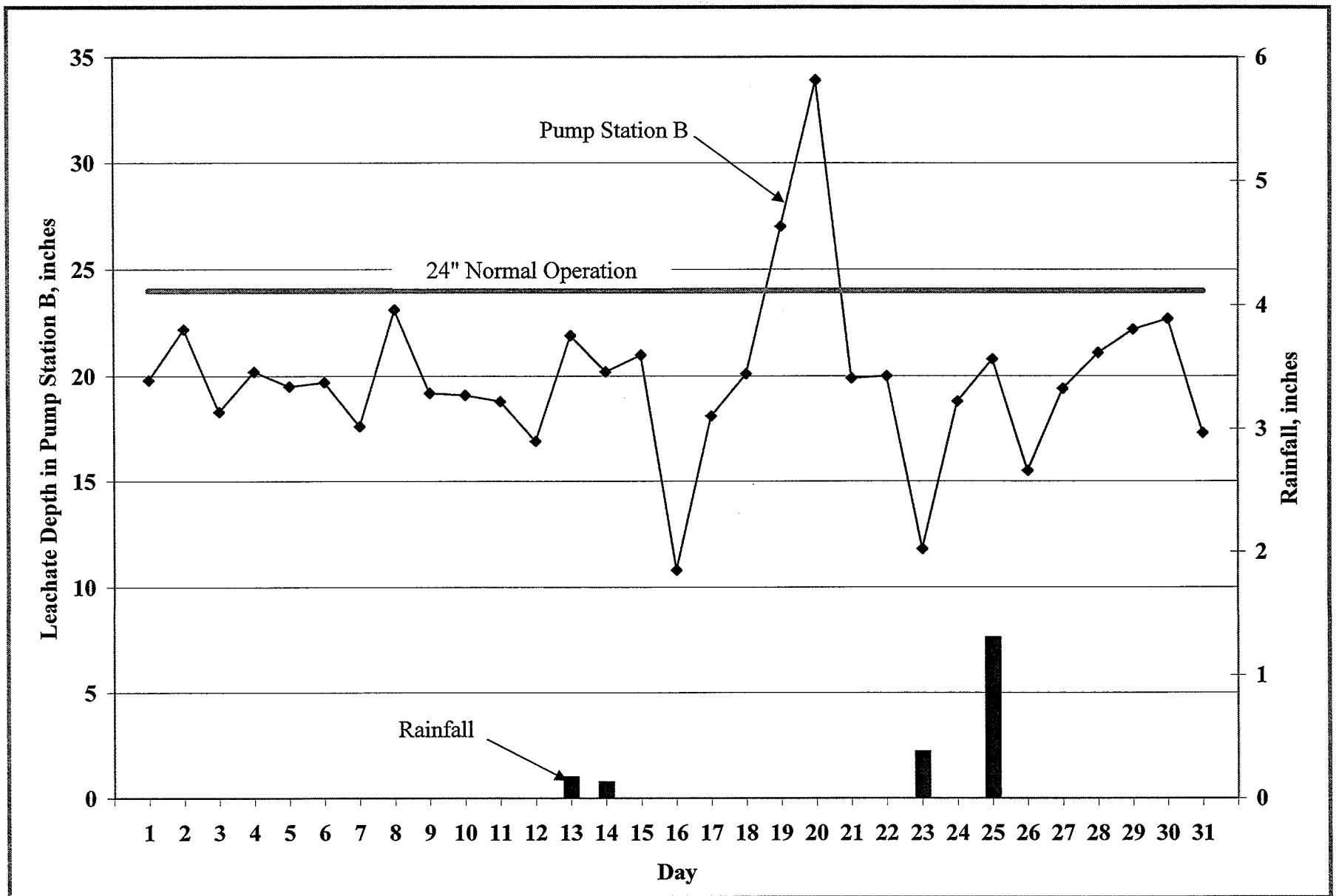


Figure 1. Leachate Levels in Pump Station B and Rainfall for December 2006.

**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) December, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	0	0.00	10.8	38,590	2,500	0	5'6"	58,414	0	0	0.00
2	0.0	310	0.00	10.5	39,661	2,970	0	5'5"	87,627	0	0	0.00
3	0.0	160	0.00	9.3	37,364	2,080	0	4'0"	0	0	0	0.00
4	0.0	90	0.30	11.2	35,785	1,370	0	4'3"	39,959	12,030	0	0.00
5	0.0	520	1.70	10.5	33,532	2,070	0	2'5"	51,809	12,263	0	0.00
6	0.0	610	1.70	10.7	33,763	2,610	0	2'1"	51,066	6,026	0	0.00
7	0.0	700	1.20	8.6	38,130	2,270	0	2'1"	51,165	6,000	0	0.00
8	0.0	890	1.00	14.1	36,308	0	0	2'3"	36,428	0	0	0.00
9	0.0	0	1.10	10.2	29,688	0	0	2'3"	0	0	0	0.00
10	0.0	220	1.60	10.1	31,367	4,040	0	2'3"	0	0	0	0.00
11	0.0	0	2.00	9.8	33,487	1,960	0	2'3"	43,834	6,000	0	0.00
12	0.0	150	1.70	7.9	34,863	0	0	2'3"	51,128	18,000	0	0.00
13	0.0	0	1.70	12.9	37,966	3,940	0	2'3"	64,243	0	0	0.17
14	0.0	0	1.50	11.2	39,367	0	68	2'3"	43,832	18,000	0	0.13
15	0.0	0	1.50	12.0	44,028	90	0	1'10"	51,127	0	0	0.00
16	0.0	0	1.20	1.8	45,448	120	0	1'10"	36,522	0	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Graves

Revised Jan. 16, 2004

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**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) December, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
17	0.0	0	1.40	9.1	34,085	0	0	1'10"	0	0	0	0.00
18	0.0	0	1.60	11.1	33,931	1,830	0	1'10"	43,842	0	0	0.00
19	0.0	0	1.00	0.6	2,298	0	0	1'10"	29,215	0	0	0.00
20	0.0	0	1.50	24.9	48,486	0	0	2'3"	29,206	12,000	0	0.00
21	0.0	310	1.80	10.9	45,847	120	0	2'0"	29,253	12,000	0	0.00
22	0.0	0	1.90	11.0	41,087	2,110	0	2'0"	70,254	12,000	0	0.00
23	0.0	850	1.80	2.8	39,567	2,510	78	2'3"	36,518	0	0	0.38
24	0.0	340	1.80	9.8	39,114	2,930	25	2'3"	0	0	0	0.00
25	0.0	0	2.30	11.8	41,321	3,000	0	2'3"	0	0	0	1.30
26	0.0	0	3.30	6.5	43,880	47,430	0	2'3"	0	0	0	0.00
27	0.0	2,120	3.60	10.4	34,237	13,160	0	2'3"	66,131	6,000	0	0.00
28	0.0	1,320	3.50	12.1	30,946	8,130	0	2'5"	43,941	18,000	0	0.00
29	0.0	1,020	3.30	13.2	30,483	5,810	0	2'0"	36,513	6,000	0	0.00
30	0.0	150	3.30	13.7	31,893	5,575	0	1'8"	118,554	0	0	0.00
31	0.0	955	3.00	8.3	30,685	0	0	1'8"	58,429	0	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond J. Javed

Revised Jan. 16, 2004

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**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) December, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
1	3.50	1.80	0	0	44,535	0	0	0				
2	3.00	1.50	0	0	49,002	0	0	0				
3	3.00	0.00	0	0	0	0	0	0				
4	3.00	0.00	0	0	0	0	0	0				
5	3.00	0.00	0	0	0	0	0	0				
6	3.00	0.00	0	0	0	0	0	0				
7	3.00	0.00	11	0	0	0	0	0				
8	3.00	0.00	0	0	0	0	0	0				
9	3.00	0.00	0	0	0	0	0	0				
10	3.00	0.00	0	0	0	0	0	0				
11	2.90	0.00	0	0	0	0	0	0				
12	2.90	0.00	0	0	0	0	0	0				
13	2.90	0.00	0	0	0	0	0	0				
14	2.90	0.00	0	0	0	0	0	0				
15	2.90	0.00	0	0	0	0	0	0				
16	2.90	0.00	0	0	0	0	0	0				

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond Brown

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

December, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
17	2.90	0.00	0	0	0		0	0				
18	2.90	0.00	0	0	0		0	0				
19	2.90	0.00	0	0	0		0	0				
20	2.90	0.00	0	0	0		0	0				
21	2.90	0.00	0	0	0		0	0				
22	2.90	0.00	0	0	0		0	0				
23	2.90	0.00	0	0	0		0	0				
24	2.90	0.00	0	0	0		0	0				
25	2.90	0.00	0	0	0		0	0				
26	3.00	0.00	0	0	0		0	0				
27	3.00	0.00	0	0	0		0	0				
28	3.00	0.00	0	0	0		0	0				
29	3.00	0.00	2	0	0		0	0				
30	3.00	0.00	0	0	0		0	0				
31	3.00	0.00	0	0	0		0	0				

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

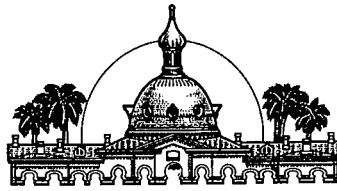
(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Jones



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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December 29, 2006

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

Dept. of Environmental
Protection
JAN 12 2007
Southwest District

RE: Southeast County Landfill –November 2006 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report Form for the month of November 2006. In addition, the SWMD is providing the November 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO, Specific Condition No. 16.

As initiated with the April 1996 report, the Landfill leachate information for November 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches except for November 12, 20 and 24 due to pump malfunctions that have been corrected. The average depth of leachate in the PS-B sump for the recorded days in November 2006 was 19.2 inches.

Ms. Susan J. Pelz
December 29, 2006
Page Two

Please advise should you have any questions concerning the information provided.

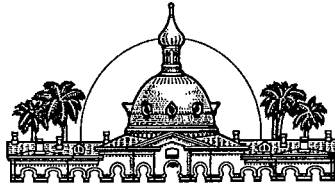
Sincerely,

A handwritten signature in black ink, reading "Patricia V. Berry". The signature is written in a cursive style with a large, looping initial "P".

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea1106.dep



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: December 20, 2006

TO: Patricia Berry, Section Manager, Solid Waste Management Department

FROM: *fel* Larry Ruiz, General Manager II, Solid Waste Management Department
Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT: Leachate Water Balance Report Forms for November 2006
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Department (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI and Sections 7-8 of the Capacity Expansion for November 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 1.0 inch of rainfall at the Southeast County Landfill (SCLF).

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 3.2 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the average depth of effluent stored in Pond B was 2.0 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches except for November 12, 20, and 24 due to pump malfunctions that have been corrected. The average depth of leachate in the PS-B sump was 19.2 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 200 gallons. A total of 6,000 gallons of leachate was pumped this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 36,865 gallons. A total of 1,105,957 gallons of leachate was pumped to the storage tank this month.

Leachate Pumped from Sections 7-8 Leak Detection System (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 1,834 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. Normally the quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VIII). Beginning on November 10, 2006, the plugs separating the Sections 7 and 8 LCRS were removed. This month an estimated 135,600 gallons of leachate was pumped to the MLPS from Sections 7-8.

Total Leachate Pumped to LTRF (Column X)

Column X presents the total quantity of leachate pumped to the LTRF through the MLPS from Phases I-VI and from Sections 7-8. This month a total of 1,241,557 gallons of leachate was pumped from Phases I-VI and Sections 7-8.

Leachate in 575,000-Gallon Tank (Column XI)

Column XI presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. The average daily amount of leachate stored in the tank this month was estimated at 238,800 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. On November 27, 2006, the SWMD began shut-down procedures in preparation for tankage inspection. This month a total of 991,500 gallons of leachate was treated at the LTRF.

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 418,020 gallons of leachate was hauled off site.

Leachate Dust Control (Sprayed) (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month leachate was not used for dust control.

Pond A Storage (Column XV)

Column XV presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 119,600 gallons of effluent was stored in Pond A.

Pond B Storage (Column XVI)

Column XVI presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). The volume of the pond at varying depths is estimated using AutoCAD software and calculations based on the conic method for reservoir volumes. Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month a daily average of 83,300 gallons of effluent was stored in Pond B.

Effluent Sprayed at Pond B (Column XVII)

Column XVII presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B. Effluent was not sprayed at Pond B this month.

Effluent Irrigation (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 920,257 gallons of effluent was used as spray irrigation.

Effluent Dust Control (Sprayed) (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XX)

Column XX presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month effluent was not hauled off site.

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 736,200 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill.

MEMORANDUM

December 20, 2006

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Total inflow quantity to the LTRF was 1,241,557 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,409,520 gallons. The change in storage for the month of November decreased by 167,963 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
NOVEMBER 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (in.)	Estimated Depth at PS-B (in.)	Leachate Pumped to PS-B from TPS-6 (gal.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped from Section 7-8 Leak Detection (gal.)	Leachate Pumped to MLPS from Section 7-8 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.00	3.6	1.7	18.2	310	39,355	43	0	39,355	206,000	35,300	12,986	0	145,000	57,000	0	49,986	0	0	40,000
2	0.00	3.0	1.7	18.2	470	41,100	51	2,570	43,670	204,000	36,000	6,516	0	108,000	57,000	0	49,401	0	0	39,500
3	0.00	2.8	1.7	19.4	310	37,156	58	0	37,156	199,000	35,000	6,520	0	98,000	57,000	0	42,916	0	0	34,300
4	0.00	2.6	1.7	21.2	130	33,649	61	0	33,649	199,000	35,400	0	0	88,000	57,000	0	47,880	0	0	38,300
5	0.00	2.3	1.7	17.2	78	32,385	62	2,130	34,515	202,000	35,600	0	0	74,000	57,000	0	0	0	0	0
6	0.00	3.0	1.7	15.1	0	36,787	63	0	36,787	202,000	37,200	0	0	108,000	57,000	0	42,665	0	0	34,100
7	0.08	2.8	1.7	20.6	462	40,664	65	0	40,664	206,000	37,100	0	0	98,000	57,000	0	0	0	0	0
8	0.00	3.5	1.7	18.9	320	48,238	62	2,370	50,608	223,000	37,000	0	0	140,000	57,000	0	36,958	0	0	29,600
9	0.00	3.4	1.7	18.5	180	44,038	63	0	44,038	230,000	37,300	13,031	0	129,000	57,000	0	28,804	0	0	23,000
10	0.00	3.5	1.7	15.3	220	39,278	66	2,175	41,453	233,000	36,600	0	0	140,000	57,000	0	40,127	0	0	32,100
11	0.00	3.2	1.7	16.2	0	23,663	64	15,805	39,468	247,000	26,900	0	0	118,000	57,000	0	63,939	0	0	51,200
12	0.00	2.6	1.7	32.9	190	25,802	65	5,100	34,902	250,000	34,100	0	0	88,000	57,000	0	0	0	0	0
13	0.00	3.3	1.7	14.7	0	46,023	70	2,480	48,503	261,000	38,000	13,025	0	123,000	57,000	0	29,918	0	0	23,900
14	0.00	3.4	1.7	14.3	40	44,131	63	3,060	47,191	259,000	30,100	19,539	0	129,000	57,000	0	39,817	0	0	31,900
15	0.33	3.5	1.7	15.2	280	42,996	56	3,010	46,006	266,000	41,100	13,026	0	140,000	57,000	0	30,578	0	0	24,500
16	0.44	3.6	1.8	14.9	60	48,638	44	4,920	53,558	269,000	39,400	19,548	0	145,000	64,000	0	0	0	0	0
17	0.00	3.6	2.2	21.7	0	37,715	43	39,920	77,635	281,000	33,300	13,034	0	145,000	97,000	0	45,840	0	0	36,700
18	0.00	3.4	2.2	20.2	0	35,683	50	14,100	49,783	290,000	36,000	0	0	129,000	97,000	0	44,739	0	0	35,800
19	0.00	3.2	2.2	20.1	0	35,336	45	7,340	42,676	293,000	41,800	0	0	118,000	97,000	0	0	0	0	0
20	0.00	3.6	2.4	33.1	0	18,796	54	4,620	23,416	302,000	44,100	13,035	0	145,000	115,000	0	52,904	0	0	42,300
21	0.00	3.5	2.4	14.8	440	50,015	183	2,330	52,345	278,000	36,500	12,031	0	140,000	115,000	0	43,474	0	0	34,800
22	0.00	3.0	2.4	20.9	250	35,867	190	1,970	37,837	266,000	32,400	6,014	0	108,000	115,000	0	44,608	0	0	35,700
23	0.00	2.8	2.4	17.1	0	21,590	244	3,680	25,270	266,000	36,900	0	0	98,000	115,000	0	0	0	0	0
24	0.00	3.5	2.4	33.4	0	14,309	55	1,700	16,009	238,000	36,500	0	0	140,000	115,000	0	47,022	0	0	37,600
25	0.00	3.3	2.4	14.3	655	56,550	0	1,640	58,190	259,000	38,600	0	0	123,000	115,000	0	38,531	0	0	30,800
26	0.00	3.3	2.4	18.4	335	36,372	3	2,730	39,102	259,000	42,000	0	0	123,000	115,000	0	0	0	0	0
27	0.10	3.6	2.6	18.8	0	36,327	0	1,335	37,662	252,000	37,700	66,665	0	145,000	133,000	0	46,306	0	0	37,000
28	0.00	2.7	2.7	20.5	1,270	37,350	0	5,205	42,555	218,000	3,600	69,290	0	93,000	143,000	0	27,617	0	0	22,100
29	0.00	2.2	2.7	17.2	0	31,072	0	2,290	33,362	156,000	0	83,912	0	70,000	143,000	0	26,227	0	0	21,000
30	0.05	3.5	1.8	15.5	0	31,072	11	3,120	34,192	151,000	0	49,848	0	140,000	64,000	0	0	0	0	0
Total	1.00				6,000	1,105,957	1,834	135,600	1,241,557		991,500	418,020	0				920,257	0	0	736,200
Daily Average		3.2	2.0	19.2	200	36,865	61	4,520	41,385	238,800				119,600	83,300	0				
Mo. Average													0				30,700	0	0	24,540

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Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.
7. Column V, PPS-B sensor reading plus 9 inches.
8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7-8 leachate sump riser.
9. Column XI, calculated from depth in 575,000 gal. leachate tank.
10. Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
11. Column XXI includes 80% of the daily values from Columns XIV, XVIII, and XIX plus 5% of the daily values from column XVII.

TABLE 2. FIELD DATA ENTRY FORM
NOVEMBER 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVI	XVIII	XIX
Day	Reading PS-B (in.)	Section 7-8 Leak Det. (gal.)	Section 7-8 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	9.2	165,311	12,264,950	5,809,880	1,627,294	7.17	0	12,986	0	0.00	3.6	1.7	0.0	35,320	49,986	0	0	0
2	9.2	165,362	12,267,520	5,810,350	1,668,394	7.08	0	6,516	0	0.00	3.0	1.7	0.0	35,985	49,401	0	0	0
3	10.4	165,420	12,267,520	5,810,660	1,705,550	6.92	0	6,520	0	0.00	2.8	1.7	0.0	35,047	42,916	0	0	0
4	12.2	165,481	12,267,520	5,810,790	1,739,199	6.92	0	0	0	0.00	2.6	1.7	0.0	35,388	47,880	0	0	0
5	8.2	165,543	12,269,650	5,810,868	1,771,584	7.00	0	0	0	0.00	2.3	1.7	0.0	35,591	0	0	0	0
6	6.1	165,606	12,269,650	5,810,868	1,808,371	7.00	0	0	0	0.00	3.0	1.7	0.0	37,203	42,665	0	0	0
7	11.6	165,671	12,269,650	5,811,330	1,849,035	7.17	0	0	0	0.08	2.8	1.7	0.0	37,108	0	0	0	0
8	9.9	165,733	12,272,020	5,811,650	1,897,273	7.75	0	0	0	0.00	3.5	1.7	0.0	36,961	36,958	0	0	0
9	9.5	165,796	12,272,020	5,811,830	1,941,311	8.00	0	13,031	0	0.00	3.4	1.7	0.0	37,329	28,804	0	0	0
10	6.3	165,862	12,274,195	5,812,050	1,980,589	8.08	0	0	0	0.00	3.5	1.7	0.0	36,558	40,127	0	0	0
11	7.2	165,926	12,290,000	5,812,050	2,004,252	8.58	0	0	0	0.00	3.2	1.7	0.0	26,857	63,939	0	0	0
12	23.9	165,991	12,295,100	5,812,240	2,034,054	8.67	0	0	0	0.00	2.6	1.7	0.0	34,122	0	0	0	0
13	5.7	166,061	12,297,580	5,812,240	2,080,077	9.08	0	13,025	0	0.00	3.3	1.7	0.0	38,028	29,918	0	0	0
14	5.3	166,124	12,300,640	5,812,280	2,124,208	9.00	0	19,539	0	0.00	3.4	1.7	0.0	30,129	39,817	0	0	0
15	6.2	166,180	12,303,650	5,812,560	2,167,204	9.25	0	13,026	0	0.33	3.5	1.7	0.0	41,135	30,578	0	0	0
16	5.9	166,224	12,308,570	5,812,620	2,215,842	9.33	0	19,548	0	0.44	3.6	1.8	0.0	39,435	0	0	0	0
17	12.7	166,267	12,348,490	5,812,620	2,253,557	9.75	0	13,034	0	0.00	3.6	2.2	0.0	33,285	45,840	0	0	0
18	11.2	166,317	12,362,590	5,812,620	2,289,240	10.08	0	0	0	0.00	3.4	2.2	0.0	35,996	44,739	0	0	0
19	11.1	166,362	12,369,930	5,812,620	2,324,576	10.17	0	0	0	0.00	3.2	2.2	0.0	41,807	0	0	0	0
20	24.1	166,416	12,374,550	5,812,620	2,343,372	10.50	0	13,035	0	0.00	3.6	2.4	0.0	44,067	52,904	0	0	0
21	5.8	166,599	12,376,880	5,813,060	2,393,387	9.67	0	12,031	0	0.00	3.5	2.4	0.0	36,488	43,474	0	0	0
22	11.9	166,789	12,378,850	5,813,310	2,429,254	9.25	0	6,014	0	0.00	3.0	2.4	0.0	32,352	44,608	0	0	0
23	8.1	167,033	12,382,530	5,813,310	2,450,844	9.25	0	0	0	0.00	2.8	2.4	0.0	36,933	0	0	0	0
24	24.4	167,088	12,384,230	5,813,310	2,465,153	8.25	0	0	0	0.00	3.5	2.4	0.0	36,486	47,022	0	0	0
25	5.3	167,088	12,385,870	5,813,965	2,521,703	9.00	0	0	0	0.00	3.3	2.4	0.0	38,613	38,531	0	0	0
26	9.4	167,091	12,388,600	5,814,300	2,558,075	9.00	0	0	0	0.00	3.3	2.4	0.0	42,029	0	0	0	0
27	9.8	167,091	12,389,935	5,814,300	2,594,402	8.75	54,639	12,026	0	0.10	3.6	2.6	0.0	37,694	46,306	0	0	0
28	11.5	167,091	12,395,140	5,815,570	2,631,752	7.58	51,202	18,088	0	0.00	2.7	2.7	0.0	3,595	27,617	0	0	0
29	8.2	167,091	12,397,430	5,815,570	2,662,824	5.42	65,791	18,121	0	0.00	2.2	2.7	0.0	0	26,227	0	0	0
30	6.5	167,102	12,400,550	5,815,570	2,693,896	5.25	43,820	6,028	0	0.05	3.5	1.8	0.0	0	0	0	0	0

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Notes:

- NR = No Records, NA = Not Available.
- Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
- Column IV includes quantities from leak detection system.
- Column XI, trace is less than 0.01 inches.
- Columns III, IV, V, VI, VIII, IX, X, XIV, XV, XVI, XVII and XVIII are quantities from flow meters.
- Columns XII and XIII measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Section 7-8 acres
Open	6	0
Intermediate	133.4	19.3
Final	23	0
Not Opened	0	0

**TABLE 3. 2006 MONTHLY LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7-8 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.10	0	58,666	1,146,298	235,508	160,066	1,034,200	0	0	985,357	1,204,964	1,429,774	-224,810
April	0.17	0	26,367	1,073,620	162,705	20,042	1,119,100	0	0	857,079	1,099,987	1,301,847	-201,860
May	1.22	0	38,814	1,057,227	30,067	0	1,186,800	0	0	1,132,512	1,096,041	1,216,867	-120,826
June	8.33	0	105,196	1,035,231	139,447	0	1,017,100	84,617	0	970,248	1,140,427	1,156,547	-16,120
July	15.67	0	50,052	1,238,861	460,155	0	894,600	686,403	0	269,090	1,288,913	1,354,755	-65,842
August	7.89	0	66,496	1,342,399	706,832	3,064	831,600	285,856	0	596,768	1,408,895	1,541,496	-132,601
September	6.46	0	81,290	1,288,709	731,492	0	913,600	637,975	0	329,191	1,369,999	1,645,092	-275,093
October	1.07	0	39,395	1,284,246	207,451	12,000	1,160,700	0	0	1,100,088	1,323,641	1,380,151	-56,510
November	1.00	0	135,600	1,105,957	418,020	0	991,500	0	0	920,257	1,241,557	1,409,520	-167,963
December	0.00	0	0	0	0	0	0	0	0	0	0	0	0
YTD Total	46.23	0	760,505	12,782,958	3,519,148	282,691	11,380,900	1,767,442	0	9,020,259	13,543,463	15,182,739	-1,639,276

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Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

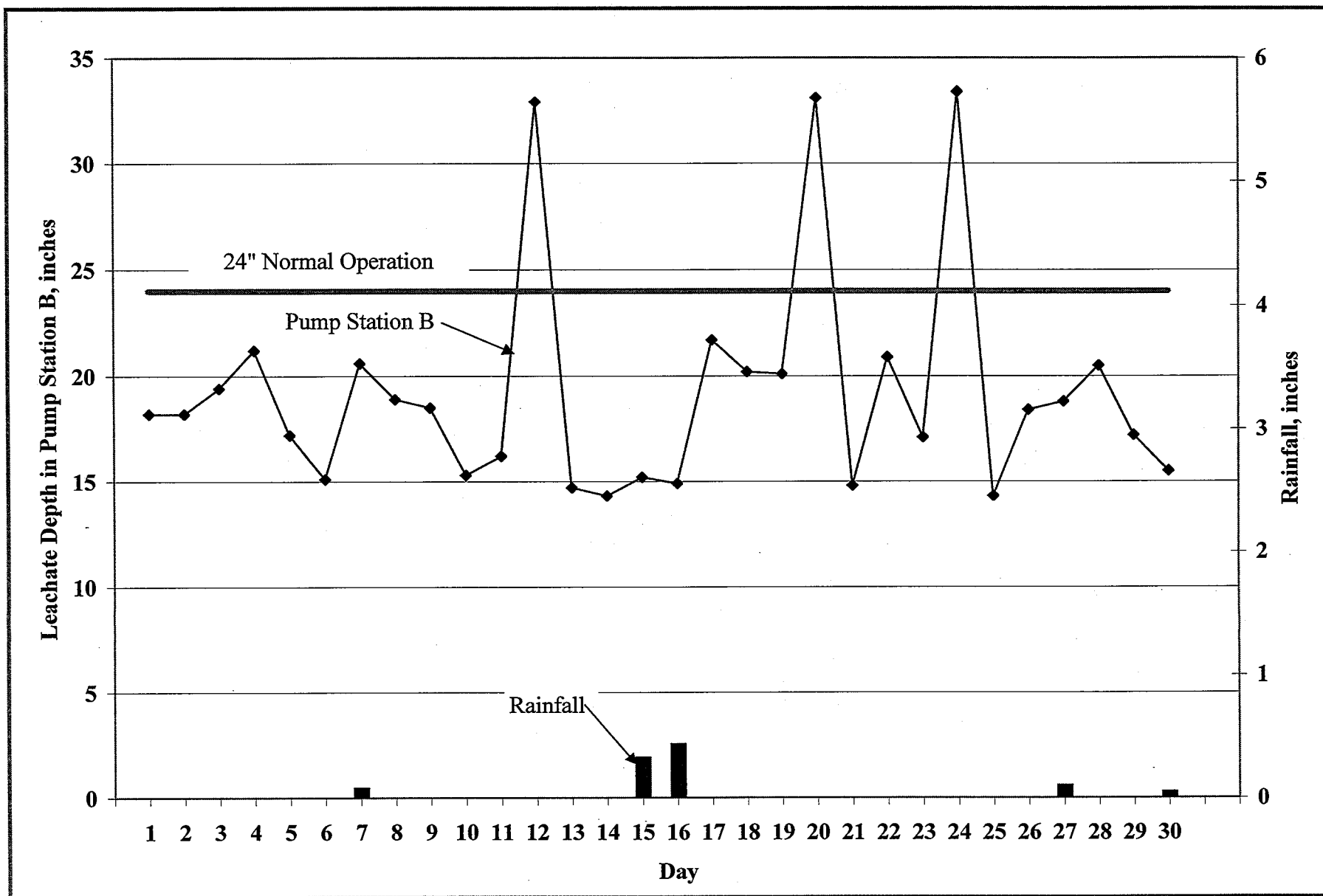


Figure 1. Leachate Levels in Pump Station B and Rainfall for November 2006.

**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) November, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	310	0.00	9.2	39,355	0	43	7'2"	0	12,986	0	0.00
2	0.0	470	0.00	9.2	41,100	2,570	51	7'1"	0	6,516	0	0.00
3	0.0	310	0.00	10.4	37,156	0	58	6'11"	0	6,520	0	0.00
4	0.0	130	0.00	12.2	33,649	0	61	6'11"	0	0	0	0.00
5	0.0	78	0.00	8.2	32,385	2,130	62	7'0"	0	0	0	0.00
6	0.0	0	0.00	6.1	36,787	0	63	7'0"	0	0	0	0.00
7	0.0	462	0.00	11.6	40,664	0	65	7'2"	0	0	0	0.08
8	0.0	320	0.00	9.9	48,238	2,370	62	7'9"	0	0	0	0.00
9	0.0	180	0.00	9.5	44,038	0	63	8'0"	0	13,031	0	0.00
10	0.0	220	0.00	6.3	39,278	2,175	66	8'1"	0	0	0	0.00
11	0.0	0	0.00	7.2	23,663	15,805	64	8'7"	0	0	0	0.00
12	0.0	190	0.00	23.9	29,802	5,100	65	8'8"	0	0	0	0.00
13	0.0	0	0.00	5.7	46,023	2,480	70	9'1"	0	13,025	0	0.00
14	0.0	40	0.00	5.3	44,131	3,060	63	9'0"	0	19,539	0	0.00
15	0.0	280	0.00	6.2	42,996	3,010	56	9'3"	0	13,026	0	0.33
16	0.0	60	0.00	5.9	48,638	4,920	44	9'4"	0	19,548	0	0.44

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Brown

Revised Jan. 16, 2004

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**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) November, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
17	0.0	0	0.00	12.7	37,715	39,920	43	9'9"	0	13,034	0	0.00
18	0.0	0	0.00	11.2	35,683	14,100	50	10'1"	0	0	0	0.00
19	0.0	0	0.00	11.1	35,336	7,340	45	10'2"	0	0	0	0.00
20	0.0	0	0.00	24.1	18,795	4,620	54	10'6"	0	13,035	0	0.00
21	0.0	440	0.00	5.8	50,015	2,330	183	9'8"	0	12,031	0	0.00
22	0.0	250	0.00	11.9	35,867	1,970	190	9'3"	0	6,014	0	0.00
23	0.0	0	0.00	8.1	21,590	3,680	235	9'3"	0	0	0	0.00
24	0.0	0	0.00	24.4	14,309	1,700	55	8'3"	0	0	0	0.00
25	0.0	655	0.00	5.3	66,550	1,639	0	9'0"	0	0	0	0.00
26	0.0	335	0.00	9.4	36,372	2,730	3	9'0"	0	0	0	0.00
27	0.0	0	0.00	9.8	36,327	1,335	0	8'9"	0	12,026	0	0.10
28	0.0	1,270	0.00	11.5	37,350	5,205	0	7'6"	0	18,088	0	0.00
29	0.0	0	0.00	8.2	0	2,290	0	5'5"	0	18,121	0	0.00
30	0.0	0	0.00	6.5	62,144	3,120	0	5'3"	0	6,028	0	0.05

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Brown

Revised Jan. 16, 2004

09200020.24\Leachate Balance\LeachateData_\LeachateData_November,2006.xls

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) November, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
1	3.60	1.70	14	35,320	49,986	0	0	0				N
2	3.00	1.70	0	35,985	49,401	0	0	0				N
3	2.80	1.70	0	35,047	42,916	0	0	0				N
4	2.60	1.70	0	35,388	47,880	0	0	0				N
5	2.30	1.70	0	35,591	0	0	0	0				
6	3.00	1.70	0	37,203	42,665	0	0	0				N
7	2.80	1.70	0	37,108	0	0	0	0				
8	3.50	1.70	0	36,961	36,958	0	0	0				N
9	3.40	1.70	0	37,329	28,804	0	0	0				N
10	3.50	1.70	0	36,558	40,127	0	0	0				N
11	3.20	1.70	0	26,857	63,939	0	0	0				N
12	2.60	1.70	0	34,122	0	0	0	0				
13	3.30	1.70	0	38,028	29,918	0	0	0				N
14	3.40	1.70	0	30,129	39,817	0	0	0				N
15	3.50	1.70	0	41,135	30,578	0	0	0				N
16	3.60	1.80	15	39,435	0	0	0	0				

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Brown

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) November, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
17	3.60	2.20	0	33,285	45,840		0	0				N
18	3.40	2.20	0	35,996	44,739		0	0				N
19	3.20	2.20	0	41,807	0		0	0				
20	3.60	2.40	9	44,067	52,904		0	0				N
21	3.50	2.40	0	36,488	43,474		0	0				N
22	3.00	2.40	0	32,352	44,608		0	0				N
23	2.80	2.40	0	36,933	0		0	0				
24	3.50	2.40	0	36,486	47,022		0	0				N
25	3.30	2.40	0	38,613	38,531		0	0				N
26	3.30	2.40	0	42,029	0		0	0				
27	3.60	2.60	0	37,694	46,306		0	0				N
28	2.70	2.70	0	3,595	27,617		0	0				N
29	2.20	2.70	0	0	26,227		0	0				N
30	3.50	1.80	0	0	0		0	0				

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

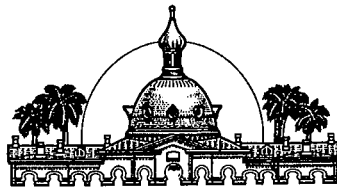
(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: *Raymond Lewis*



Hillsborough County
Florida

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Patricia G. Bean

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November 15, 2006

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JAN 12 2007

SOUTHWEST DISTRICT
TAMPA

RE: Southeast County Landfill –October 2006 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report Form for the month of October 2006. In addition, the SWMD is providing the October 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO, Specific Condition No. 16.

As initiated with the April 1996 report, the Landfill leachate information for October 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches. The average depth of leachate in the PS-B sump for the recorded days in October 2006 was 19.8 inches.

Post Office Box 1110 • Tampa, Florida 33601

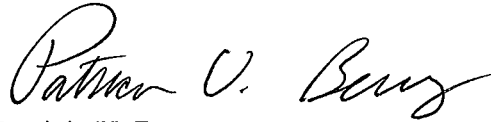
Web Site: www.hillsboroughcounty.org

An Affirmative Action/Equal Opportunity Employer

Ms. Susan J. Pelz
November 15, 2006
Page Two

Please advise should you have any questions concerning the information provided.

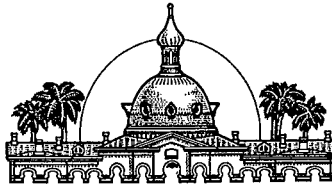
Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry". The signature is written in dark ink and is positioned above the printed name and title.

Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea1006.dep



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: November 3, 2006

TO: Patricia Berry, Section Manager, Solid Waste Management Department

FROM: *jet* Larry Ruiz, General Manager II, Solid Waste Management Department
Raymond Graves, Eng. Tech. II, Solid Waste Management Department

SUBJECT: Leachate Water Balance Report Forms for October 2006
Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Department (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI and Sections 7-8 of the Capacity Expansion for October 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 1.07 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

November 3, 2006

Page 2 of 6

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 3.1 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month the average depth of effluent stored in Pond B was 1.4 feet.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches. The average depth of leachate in the PS-B sump was 19.8 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 646 gallons. A total of 20,020 gallons of leachate was pumped this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 41,427 gallons. A total of 1,284,246 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

November 3, 2006

Page 3 of 6

Leachate Pumped from Section 7-8 Leak Detection System (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7 and 8. The quantity is measured by a flow meter before being pumped for removal with Section 7 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 1,481 gallons of leachate was removed from the leak detection system of Sections 7 and 8.

Leachate Pumped to MLPS from Section 7 (Column IX)

Column IX presents the quantity of leachate collected at Section 7 and pumped to the MLPS. Normally the quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7 and 8 (Column VIII). Beginning sometime after September 23 the flow meter began malfunctioning. The SWMD has begun the process to replace the flow meter and installed a temporary mechanical flow meter until the permanent magnetic flow meter is installed. From the 1st through the 12th, the SWMD has used the calculated daily mean value of 1,950 gallons per day (based on the year to date removal). This month an estimated 39,395 gallons of leachate was pumped to the MLPS from Section 7.

Total Leachate Pumped to LTRF (Column X)

Column X presents the total quantity of leachate pumped to the LTRF through the MLPS from Phases I-VI and from Section 7. This month a total of 1,323,641 gallons of leachate was pumped from Phases I-VI and Section 7.

Leachate in 575,000-Gallon Tank (Column XI)

Column XI presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. The average daily amount of leachate stored in the tank this month was estimated at 211,600 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,160,700 gallons of leachate was treated at the LTRF.

Total Leachate Hauled (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 207,451 gallons of leachate was hauled off site.

Leachate Dust Control (Sprayed) (Column XIV)

Column XIV presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month a total of 12,000 gallons of leachate was used for dust control.

Pond A Storage (Column XV)

Column XV presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 117,100 gallons of effluent was stored in Pond A.

Pond B Storage (Column XVI)

Column XVI presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). The volume of the pond at varying depths is estimated using AutoCAD software and calculations based on the conic method for reservoir volumes. Under normal operating conditions, the daily amount of effluent stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month a daily average of 42,800 gallons of effluent was stored in Pond B.

Effluent Sprayed at Pond B (Column XVII)

Column XVII presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B. Effluent was not sprayed at Pond B this month.

MEMORANDUM

November 3, 2006

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Effluent Irrigation (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 1,100,088 gallons of effluent was used as spray irrigation.

Effluent Dust Control (Sprayed) (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XX)

Column XX presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month effluent was not hauled off site.

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 889,600 gallons.

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill.

MEMORANDUM

November 3, 2006

Page 6 of 6

Total inflow quantity to the LTRF was 1,323,641 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,380,151 gallons. The change in storage for the month of October decreased by 56,510 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
OCTOBER 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI
Day	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (in.)	Estimated Depth at PS-B (in.)	Leachate Pumped to PS-B from TPS-6 (gal.)	Leachate Pumped to MLPS from Phases I-VI (gal.)	Leachate Pumped From Sections 7-8 Leak Detection (gal.)	Leachate Pumped to MLPS from Section 7 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.00	2.7	2.3	20.5	925	41,129	3	1,950	43,079	185,000	30,000	0	0	93,000	106,000	0	0	0	0	0
2	0.00	3.2	2.3	20.8	0	40,515	3	1,950	42,465	189,000	27,900	13,043	0	118,000	106,000	0	43,516	0	0	34,800
3	0.00	2.9	2.3	18.9	4,085	40,752	4	1,950	42,702	204,000	29,500	6,518	0	103,000	106,000	0	44,717	0	0	35,800
4	0.00	2.9	2.1	18.3	3,150	40,661	24	1,950	42,611	216,000	29,500	12,939	0	103,000	88,000	0	47,727	0	0	38,200
5	0.00	2.8	1.8	18.7	30	43,507	51	1,950	45,457	221,000	26,500	18,546	12,000	98,000	64,000	0	45,473	0	0	46,000
6	0.00	2.6	1.7	22.3	1,090	44,656	64	1,950	46,606	218,000	34,800	13,036	0	88,000	57,000	0	43,191	0	0	34,600
7	0.00	2.9	1.4	22.2	730	45,169	64	1,950	47,119	218,000	37,500	0	0	103,000	38,000	0	43,753	0	0	35,000
8	0.00	2.8	1.4	21.1	0	41,486	61	1,950	43,436	230,000	36,100	0	0	98,000	38,000	0	0	0	0	0
9	0.00	3.4	1.4	20.9	0	42,258	61	1,950	44,208	235,000	36,500	13,032	0	129,000	38,000	0	56,162	0	0	44,900
10	0.00	3.0	1.4	21.5	966	42,530	60	1,950	44,480	235,000	43,200	0	0	108,000	38,000	0	56,783	0	0	45,400
11	0.00	2.9	1.3	17.3	1,084	44,527	60	1,950	46,477	242,000	43,500	0	0	103,000	33,000	0	51,385	0	0	41,100
12	0.02	2.9	1.2	19.0	1,210	44,347	55	1,950	46,297	245,000	42,900	19,545	0	103,000	28,000	0	45,034	0	0	36,000
13	0.00	2.9	1.1	19.7	560	46,122	62	2,265	48,387	238,000	41,400	0	0	103,000	23,000	0	44,023	0	0	35,200
14	0.00	2.9	0.9	20.9	360	40,952	57	1,057	42,009	245,000	44,500	0	0	103,000	15,000	0	0	0	0	0
15	0.00	3.6	1.0	20.6	0	38,222	57	0	38,222	240,000	12,400	0	0	145,000	19,000	0	0	0	0	0
16	0.00	3.6	1.2	18.7	0	43,802	61	1,893	45,695	240,000	43,800	13,034	0	145,000	28,000	0	51,385	0	0	41,100
17	0.00	3.3	1.2	18.2	0	44,846	55	220	45,066	242,000	41,200	19,542	0	123,000	28,000	0	40,679	0	0	32,500
18	0.00	3.3	1.2	20.5	80	43,208	75	0	43,208	230,000	41,300	13,032	0	123,000	28,000	0	46,593	0	0	37,300
19	0.00	3.2	1.2	20.8	130	41,062	45	1,130	42,192	221,000	39,200	19,549	0	118,000	28,000	0	47,043	0	0	37,600
20	0.00	3.0	1.2	21.0	155	45,646	40	1,850	47,496	206,000	43,300	13,035	0	108,000	28,000	0	39,424	0	0	31,500
21	0.00	3.1	1.2	19.8	645	43,503	56	1,100	44,603	209,000	45,600	0	0	113,000	28,000	0	39,718	0	0	31,800
22	0.00	3.1	1.1	19.4	0	39,307	51	80	39,387	209,000	41,400	0	0	113,000	23,000	0	0	0	0	0
23	0.00	3.6	1.1	17.3	0	37,905	49	110	38,015	206,000	42,800	6,518	0	145,000	23,000	0	39,252	0	0	31,400
24	0.00	3.5	1.3	20.2	1,860	37,546	50	1,390	38,936	194,000	42,600	19,564	0	140,000	33,000	0	46,946	0	0	37,600
25	0.00	3.4	1.4	18.3	510	34,956	49	1,650	36,606	173,000	44,000	6,518	0	129,000	38,000	0	49,622	0	0	39,700
26	0.00	3.3	1.4	19.9	670	36,689	50	1,010	37,699	158,000	40,200	0	0	123,000	38,000	0	51,947	0	0	41,600
27	0.85	3.2	1.2	21.5	490	38,136	43	40	38,176	163,000	33,900	0	0	118,000	28,000	0	52,678	0	0	42,100
28	0.20	3.0	1.3	18.5	60	46,679	49	2,200	48,879	180,000	37,700	0	0	108,000	33,000	0	0	0	0	0
29	0.00	3.3	1.3	20.4	160	40,662	38	0	40,662	187,000	38,300	0	0	140,000	33,000	0	0	0	0	0
30	0.00	3.6	1.7	18.1	0	34,875	41	0	34,875	187,000	35,000	0	0	145,000	57,000	0	35,887	0	0	28,700
31	0.00	3.5	1.7	17.2	1,070	38,591	43	0	38,591	194,000	34,200	0	0	140,000	57,000	0	37,150	0	0	29,700
Total	1.07				20,020	1,284,246	1,481	39,395	1,323,641		1,160,700	207,451	12,000				1,100,088	0	0	889,600
Daily Average		3.1	1.4	19.8	646	41,427	48	1,271	42,698	211,600				117,100	42,800	0				
Mo. Average													400				35,500	0	0	28,700

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Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
3. Daily average is calculated by dividing the total by the actual days measured in the month.
4. Monthly average calculated by dividing the total by the number of days of the month.
5. Column II, Trace is less than 0.01 inches and is not included in total.
6. Columns III and IV, field measured at staff gauges.
7. Column V, PPS-B sensor reading plus 9 inches.
8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
9. Column XI, calculated from depth in 575,000 gal. leachate tank.
10. Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
11. Column XXI includes 80% of the daily values from Columns XIV, XVIII, and XIX plus 5% of the daily values from column XVII.

TABLE 2. FIELD DATA ENTRY FORM
OCTOBER 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX
Day	Reading PS-B (in.)	Section 7-8 Leak Det (gal.)	Section 7 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	11.5	163,790	2,641,331	5,790,475	344,822	6.42	0	0	0	0.00	2.7	2.3	0	29,950	0	0	0	0
2	11.8	163,793	2,641,331	5,790,475	385,337	6.58	0	13,043	0	0.00	3.2	2.3	0	27,922	43,516	0	0	0
3	9.9	163,797	2,641,331	5,794,560	426,089	7.08	0	6,518	0	0.00	2.9	2.3	0	29,450	44,717	0	0	0
4	9.3	163,821	2,641,331	5,797,710	466,750	7.50	0	12,939	0	0.00	2.9	2.1	0	29,478	47,727	0	0	0
5	9.7	163,872	2,641,334	5,797,740	510,257	7.67	0	18,546	12,000	0.00	2.8	1.8	0	26,523	45,473	0	0	0
6	13.3	163,936	2,641,334	5,798,830	554,913	7.58	0	13,036	0	0.00	2.6	1.7	0	34,824	43,191	0	0	0
7	13.2	164,000	2,641,334	5,799,560	600,082	7.58	0	0	0	0.00	2.9	1.4	0	37,483	43,753	0	0	0
8	12.1	164,061	2,641,334	5,799,560	641,568	8.00	0	0	0	0.00	2.8	1.4	0	36,073	0	0	0	0
9	11.9	164,122	2,641,334	5,799,560	683,826	8.17	0	13,032	0	0.00	3.4	1.4	0	36,542	56,162	0	0	0
10	12.5	164,182	2,641,334	5,800,526	726,356	8.17	0	0	0	0.00	3.0	1.4	0	43,179	56,783	0	0	0
11	8.3	164,242	2,641,334	5,801,610	770,883	8.42	0	0	0	0.00	2.9	1.3	0	43,534	51,385	0	0	0
12	10.0	164,297	2,641,334	5,802,820	815,230	8.50	0	19,545	0	0.02	2.9	1.2	0	42,881	45,034	0	0	0
13	10.7	164,359	12,251,220	5,803,380	861,352	8.25	0	0	0	0.00	2.9	1.1	0	41,438	44,023	0	0	0
14	11.9	164,416	12,252,277	5,803,740	902,304	8.50	0	0	0	0.00	2.9	0.9	0	44,483	0	0	0	0
15	11.6	164,473	12,252,277	5,803,740	940,526	8.33	0	0	0	0.00	3.6	1.0	0	12,380	0	0	0	0
16	9.7	164,534	12,254,170	5,803,740	984,328	8.33	0	13,034	0	0.00	3.6	1.2	0	43,824	51,385	0	0	0
17	9.2	164,589	12,254,390	5,803,740	1,029,174	8.42	0	19,542	0	0.00	3.3	1.2	0	41,249	40,679	0	0	0
18	11.5	164,664	12,254,390	5,803,820	1,072,382	8.00	0	13,032	0	0.00	3.3	1.2	0	41,347	46,593	0	0	0
19	11.8	164,709	12,255,520	5,803,950	1,113,444	7.67	0	19,549	0	0.00	3.2	1.2	0	39,203	47,043	0	0	0
20	12.0	164,749	12,257,370	5,804,105	1,159,090	7.17	0	13,035	0	0.00	3.0	1.2	0	43,331	39,424	0	0	0
21	10.8	164,805	12,258,470	5,804,750	1,202,593	7.25	0	0	0	0.00	3.1	1.2	0	45,614	39,718	0	0	0
22	10.4	164,856	12,258,550	5,804,750	1,241,900	7.25	0	0	0	0.00	3.1	1.1	0	41,447	0	0	0	0
23	8.3	164,905	12,258,660	5,804,750	1,279,805	7.17	0	6,518	0	0.00	3.6	1.1	0	42,767	39,252	0	0	0
24	11.2	164,955	12,260,050	5,806,610	1,317,351	6.75	0	19,564	0	0.00	3.5	1.3	0	42,637	46,946	0	0	0
25	9.3	165,004	12,261,700	5,807,120	1,352,307	6.00	0	6,518	0	0.00	3.4	1.4	0	44,007	49,622	0	0	0
26	10.9	165,054	12,262,710	5,807,790	1,388,996	5.50	0	0	0	0.00	3.3	1.4	0	40,157	51,947	0	0	0
27	12.5	165,097	12,262,750	5,808,280	1,427,132	5.67	0	0	0	0.85	3.2	1.2	0	33,929	52,678	0	0	0
28	9.5	165,146	12,264,950	5,808,340	1,473,811	6.25	0	0	0	0.20	3.0	1.3	0	37,658	0	0	0	0
29	11.4	165,184	12,264,950	5,808,500	1,514,473	6.50	0	0	0	0.00	3.5	1.3	0	38,264	0	0	0	0
30	9.1	165,225	12,264,950	5,808,500	1,549,348	6.50	0	0	0	0.00	3.6	1.7	0	35,034	35,887	0	0	0
31	8.2	165,268	12,264,950	5,809,570	1,587,939	6.75	0	0	0	0.00	3.5	1.7	0	34,230	37,150	0	0	0

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Notes:

1. NR = No Records, NA = Not Available.
2. Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
3. Column IV includes quantities from leak detection system.
4. Column XI, trace is less than 0.01 inches.
5. Columns III, IV, V, VI, VIII, IX, X, XIV, XV, XVI, XVII and XVIII are quantities from flow meters.
6. Columns XII and XIII measured from staff gages in each pond.

Type of Cover	Phases I-VI acres	Section 7 acres
Open	6	0
Intermediate	133.4	12.5
Final	23	0
Not Opened	0	0

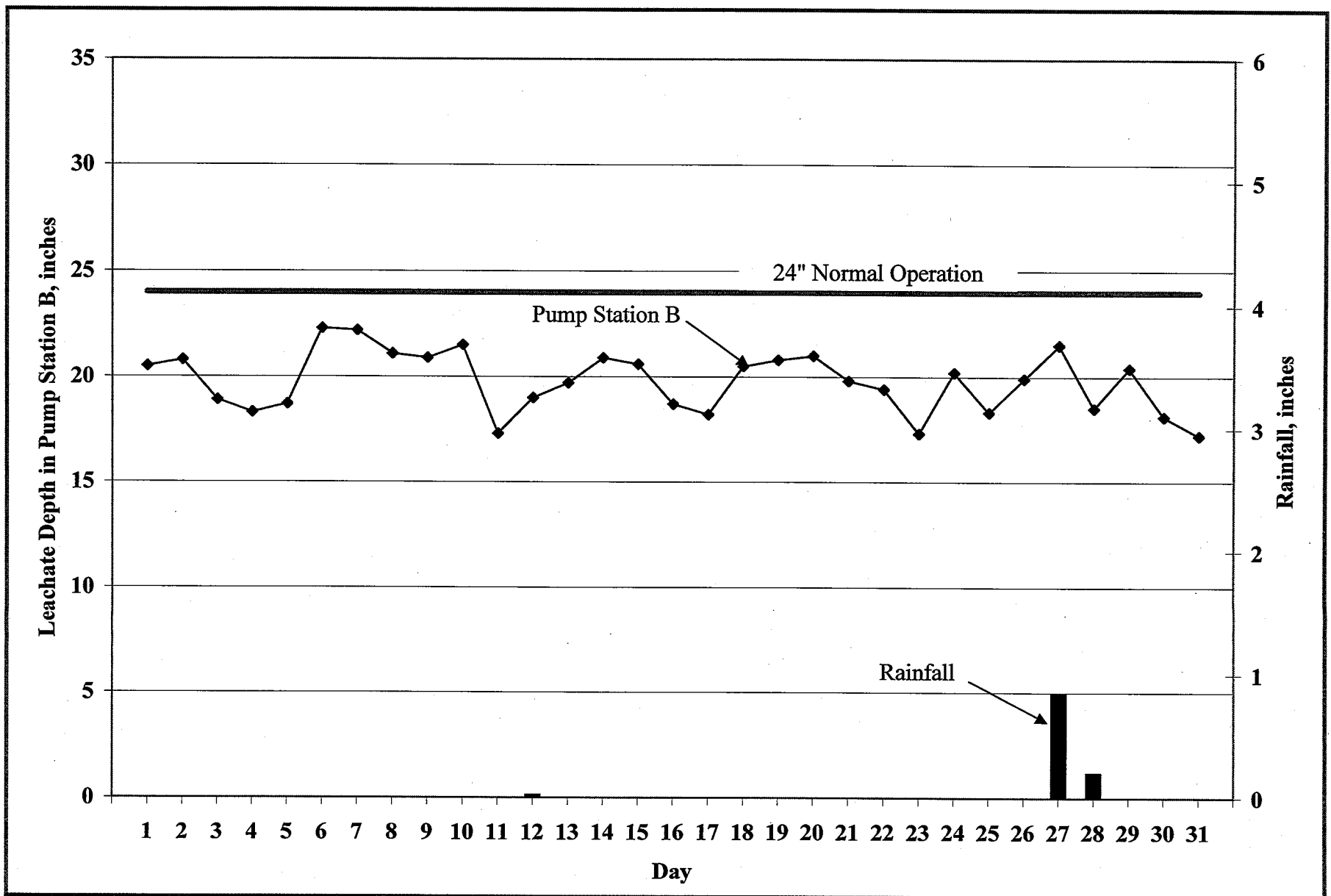


Figure 1. Leachate Levels in Pump Station B and Rainfall for October 2006.

**TABLE 3. 2006 MONTHLY LEACHATE BALANCE SUMMARY
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.10	0	58,666	1,146,298	235,508	160,066	1,034,200	0	0	985,357	1,204,964	1,429,774	-224,810
April	0.17	0	26,367	1,073,620	162,705	20,042	1,119,100	0	0	857,079	1,099,987	1,301,847	-201,860
May	1.22	0	38,814	1,057,227	30,067	0	1,186,800	0	0	1,132,512	1,096,041	1,216,867	-120,826
June	8.33	0	105,196	1,035,231	139,447	0	1,017,100	84,617	0	970,248	1,140,427	1,156,547	-16,120
July	15.67	0	50,052	1,238,861	460,155	0	894,600	686,403	0	269,090	1,288,913	1,354,755	-65,842
August	7.89	0	66,496	1,342,399	706,832	3,064	831,600	285,856	0	596,768	1,408,895	1,541,496	-132,601
September	6.46	0	81,290	1,288,709	731,492	0	913,600	637,975	0	329,191	1,369,999	1,645,092	-275,093
October	1.07	0	39,395	1,284,246	207,451	12,000	1,160,700	0	0	1,100,088	1,323,641	1,380,151	-56,510
November	0.00	0	0	0	0	0	0	0	0	0	0	0	0
December	0.00	0	0	0	0	0	0	0	0	0	0	0	0
YTD Total	45.23	0	624,905	11,677,001	3,101,128	282,691	10,389,400	1,767,442	0	8,100,002	12,301,906	13,773,219	-1,471,313

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Note:

1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) October, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	925	0.00	0.0	41,129	0	4	6'5"	0	0	0	0.00
2	0.0	0	0.00	0.0	40,515	0	3	6'7"	0	13,043	0	0.00
3	0.0	4,085	0.00	0.0	40,752	0	4	7'1"	0	6,518	0	0.00
4	0.0	3,150	0.00	0.0	40,661	0	24	7'6"	0	12,939	0	0.00
5	0.0	30	0.00	0.0	43,507	0	51	7'8"	0	18,546	12,000	0.00
6	0.0	1,090	0.00	0.0	44,656	0	64	7'7"	0	13,036	0	0.00
7	0.0	730	0.00	0.0	45,169	0	64	7'7"	0	0	0	0.00
8	0.0	0	0.00	0.0	41,486	0	61	8'0"	0	0	0	0.00
9	0.0	0	0.00	0.0	42,258	0	61	8'2"	0	13,032	0	0.00
10	0.0	960	0.00	0.0	42,530	0	60	8'2"	0	0	0	0.00
11	0.0	1,084	0.00	0.0	44,527	0	60	8'5"	0	0	0	0.00
12	0.0	1,210	0.00	0.0	44,347	0	54	8'6"	0	19,545	0	0.02
13	0.0	560	0.00	0.0	46,122	2,265	62	8'3"	0	0	0	0.00
14	0.0	360	0.00	0.0	40,952	1,057	57	8'6"	0	0	0	0.00
15	0.0	0	0.00	0.0	38,222	0	57	8'4"	0	0	0	0.00
16	0.0	0	0.00	0.0	43,802	1,893	61	8'4"	0	13,034	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Jones

Revised Jan. 16, 2004

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**LEACHATE DEPTH/SUMMARY DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year) October, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
17	0.0	0	0.00	0.0	44,846	220	55	8'5"	0	19,542	0	0.00
18	0.0	80	0.00	0.0	43,208	80	75	8'0"	0	13,032	0	0.00
19	0.0	130	0.00	0.0	41,062	1,210	45	7'8"	0	19,549	0	0.00
20	0.0	155	0.00	0.0	45,646	1,850	40	7'2"	0	13,035	0	0.00
21	0.0	645	0.00	0.0	43,503	1,100	46	7'3"	0	0	0	0.00
22	0.0	0	0.00	0.0	39,307	80	51	7'3"	0	0	0	0.00
23	0.0	0	0.00	0.0	37,905	110	49	7'2"	0	6,518	0	0.00
24	0.0	1,860	0.00	0.0	37,546	1,390	50	6'9"	0	19,564	0	0.00
25	0.0	510	0.00	0.0	34,956	1,650	49	6'0"	0	6,518	0	0.00
26	0.0	610	0.00	0.0	36,689	1,010	50	5'6"	0	0	0	0.00
27	0.0	490	0.00	0.0	38,136	40	43	5'8"	0	0	0	0.85
28	0.0	140	0.00	0.0	46,679	2,200	49	6'3"	0	0	0	0.20
29	0.0	160	0.00	0.0	40,662	0	38	6'6"	0	0	0	0.00
30	0.0	0	0.00	0.0	34,875	0	41	6'6"	0	0	0	0.00
31	0.0	1,070	0.00	0.0	38,591	0	43	6'9"	0	0	0	0.00

Note: (1) If depth is 3.6 feet or greater, contact Supervisor immediately.

(2) If depth is greater than 24 inches (2.0 feet), contact Supervisor immediately. Complete Evaluation Report Form.

Comments: _____

Prepared by: Raymond C. Arnesen

Revised Jan. 16, 2004

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**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

October, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
1	2.70	2.30	0	29,950	0		0	0				
2	3.20	2.30	0	27,922	43,516		0	0				N
3	2.90	2.30	0	29,450	44,717		0	0				N
4	2.90	2.10	0	29,478	0		0	0				N
5	2.80	1.80	0	26,523	0		0	0				
6	2.60	1.70	0	34,824	43,191		0	0				N
7	2.90	1.40	0	37,483	43,753		0	0				N
8	2.80	1.40	0	36,073	0		0	0				
9	3.40	1.40	0	36,542	56,162		0	0				N
10	3.00	1.40	0	43,179	56,783		0	0				N
11	2.90	1.30	0	43,534	51,385		0	0				N
12	2.90	1.20	0	42,881	45,034		0	0				N
13	2.90	1.10	0	41,438	44,023		0	0				N
14	2.90	0.90	0	44,483	0		0	0				
15	3.60	1.00	0	12,380	0		0	0				
16	3.60	1.20	0	43,824	51,385		0	0				N

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond A. Shaw

**EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL**

(Month/Year)

October, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
17	3.30	1.20	0	41,249	40,679		0	0				N
18	3.30	1.20	0	41,347	46,593		0	0				N
19	3.20	1.20	0	39,203	47,043		0	0				N
20	3.00	1.20	0	43,331	39,424		0	0				N
21	3.10	1.20	0	45,614	39,718		0	0				N
22	3.10	1.10	0	41,447	0		0	0				
23	3.60	1.10	0	42,767	39,252		0	0				N
24	3.50	1.30	0	42,637	46,946		0	0				N
25	3.40	1.40	0	44,007	49,622		0	0				N
26	3.30	1.40	0	40,157	51,947		0	0				N
27	3.20	1.20	0	33,929	52,678		0	0				N
28	3.00	1.30	0	37,658	0		0	0				
29	3.50	1.30	0	38,264	0		0	0				
30	3.60	1.70	0	35,034	35,887		0	0				N
31	3.50	1.70	0	34,230	37,150		0	0				N

Note (1) If depth is 4.5 feet or greater, contact Supervisor immediately.

(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

(4) If yes, contact Supervisor immediately. Complete Evaluation Report Form.

Comments:

Prepared by:

Raymond C. Sauer