

Hillsborough County
Florida

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Patricia G. Bean

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October 12, 2006

Dept. of Environmental
Protection

OCT 16 2006

Southwest District

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 – 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 October 15, 2006.

The data is being submitted as separate monthly reports for July, August and September 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 August 6 due to power outage and September 10 and 13, 2006, due to pump malfunctions. These malfunctions were immediately corrected.

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

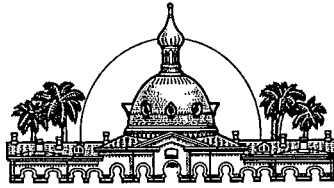
Sincerely,

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

Attachment

xc: Larry Ruiz, SWMD
Walter Gray, SWMD
Rich Siemering, JEA
Paul Schipfer, EPC

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August 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

RE: Southeast County Landfill – July 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 July 2006. In addition, the SWMD is providing the July 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.

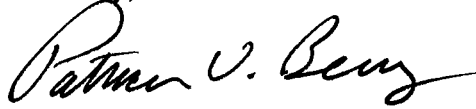
As initiated with the April 1996 report, the Landfill leachate information for July 2006 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches. The average depth of leachate in the PS-B sump for the recorded days in July 2006 was 18.2 inches.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
OCT 16 2006
SOUTHWEST DISTRICT
TAMPA

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

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

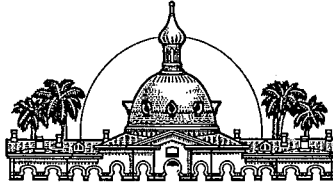
Sincerely,

A handwritten signature in black ink, reading "Patricia V. Berry". The signature is fluid and cursive, with the first name "Patricia" being more prominent and the last name "Berry" following in a similar style.

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

Attachments

glfs/lea0706.dep



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Florida

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Patricia G. Bean

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MEMORANDUM

DATE: August 25, 2006

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

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

SUBJECT: Leachate Water Balance Report Forms for July 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 July 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 15.67 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

August 25, 2006

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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 3.2 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 18.2 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 leachate removed from TPS-6 continues to decline. The average daily amount of leachate pumped from TPS-6 was 495 gallons. A total of 15,340 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 39,963 gallons. A total of 1,238,861 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

August 25, 2006

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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 back into the Section 7 sump for removal with Section 7 leachate. The removal rate did not exceed 1,250 gallons per day. This month a total of 2,520 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). This month 50,052 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 1,288,913 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 380,200 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 894,600 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 460,155 gallons of leachate was hauled off site.

MEMORANDUM

August 25, 2006

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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 107,700 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 197,400 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 269,090 gallons of effluent was used as spray irrigation.

OCT 16 2006

MEMORANDUM

August 25, 2006

Page 5 of 5

Southwest District

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 a total of 686,403 gallons of effluent was 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 215,300 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 1,288,913 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,354,755 gallons. The change in storage for the month of July decreased by 65,842 gallons.

Please be advised that the Leachate Balance Summary for the month June included a typographical error for the change in storage for the month of May. This error was changed to reflect the correct change in storage for May.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
JULY 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 Det (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	2.4	2.1	18.5	260	34,955	22	796	35,751	264,000	35,800	0	0	79,000	88,000	0	57,970	0	0	46,400
2	1.15	1.9	2.0	17.2	0	30,619	18	2,172	32,791	261,000	39,900	0	0	57,000	80,000	0	0	0	0	0
3	4.63	2.8	2.1	16.0	0	30,740	16	0	30,740	261,000	39,500	0	0	98,000	88,000	0	0	0	0	0
4	0.00	3.6	2.9	18.7	-10	31,777	31	2,507	34,284	269,000	37,500	0	0	145,000	162,000	0	0	0	0	0
5	0.00	3.6	3.2	17.6	2,270	37,508	33	0	37,508	274,000	18,900	6,018	0	145,000	192,000	0	0	0	6,016	0
6	1.20	3.6	3.3	17.0	185	40,730	85	3,350	44,080	295,000	22,100	0	0	145,000	202,000	0	0	0	30,529	0
7	1.90	3.5	3.4	16.5	0	35,552	160	0	35,552	312,000	5,300	0	0	140,000	213,000	0	0	0	24,036	0
8	0.17	3.3	3.4	15.6	0	28,670	129	3,574	32,244	345,000	24,800	0	0	123,000	213,000	0	0	0	18,093	0
9	0.00	3.3	3.6	16.7	0	38,654	129	2,899	41,553	362,000	26,500	0	0	123,000	234,000	0	0	0	30,199	0
10	0.00	3.3	3.6	16.8	0	43,642	125	2,805	46,447	384,000	23,800	0	0	123,000	234,000	0	0	0	24,123	0
11	0.82	3.2	3.6	15.7	3,005	44,183	100	1	44,184	408,000	23,600	0	0	118,000	234,000	0	0	0	48,280	0
12	0.80	2.8	3.6	21.4	1,660	38,641	97	3,076	41,717	432,000	43,300	0	0	98,000	234,000	0	0	0	42,546	0
13	0.40	3.0	3.7	20.7	240	38,963	91	0	38,963	432,000	40,600	0	0	108,000	245,000	0	0	0	42,240	0
14	0.00	2.9	3.7	16.1	710	41,227	84	3,099	44,326	439,000	50,200	0	0	103,000	245,000	0	0	0	60,452	0
15	0.00	2.4	3.7	21.5	0	42,734	82	2,960	45,694	437,000	49,400	0	0	79,000	245,000	0	0	0	60,333	0
16	0.42	2.5	3.7	19.2	0	44,106	81	0	44,106	432,000	52,800	0	0	83,000	245,000	0	0	0	0	0
17	0.00	3.5	3.7	17.9	0	44,960	85	3,301	48,261	434,000	28,200	0	0	140,000	245,000	0	0	0	60,359	0
18	0.43	2.9	3.7	21.3	100	37,071	74	0	37,071	449,000	22,800	12,096	0	103,000	245,000	0	20,476	0	48,309	16,400
19	0.35	2.8	3.4	17.6	2,240	49,769	96	2,934	52,703	473,000	23,100	48,710	0	98,000	213,000	0	5,605	0	6,034	4,500
20	0.73	3.2	3.4	20.2	555	41,721	32	2,865	44,586	437,000	23,800	30,118	0	118,000	213,000	0	0	0	30,167	0
21	0.00	3.1	3.4	19.2	400	40,050	47	0	40,050	434,000	22,000	30,681	0	113,000	213,000	0	0	0	30,196	0
22	0.14	2.8	3.4	19.8	0	46,108	46	2,740	48,848	432,000	21,900	30,480	0	98,000	213,000	0	0	0	36,200	0
23	0.50	2.6	3.4	22.2	185	44,831	23	0	44,831	432,000	26,100	0	0	88,000	213,000	0	0	0	0	0
24	0.00	3.1	3.4	18.8	790	43,064	82	1,892	44,956	451,000	23,400	30,558	0	113,000	213,000	0	0	0	30,169	0
25	0.00	2.9	3.4	17.2	875	40,112	69	2,807	42,919	446,000	23,300	50,853	0	103,000	213,000	0	45,856	0	12,067	36,700
26	0.00	2.6	3.4	17.5	175	42,345	63	0	42,345	415,000	24,100	50,390	0	88,000	213,000	0	47,358	0	0	37,900
27	0.95	3.1	2.6	19.6	650	43,109	118	2,969	46,078	386,000	25,900	51,864	0	113,000	133,000	0	41,263	0	0	33,000
28	1.02	2.9	2.8	17.5	440	38,464	85	0	38,464	355,000	22,900	43,421	0	103,000	152,000	0	0	0	19,162	0
29	0.06	2.6	2.9	16.6	0	36,651	124	3,305	39,956	333,000	24,100	24,085	0	88,000	162,000	0	0	0	26,893	0
30	0.00	2.6	2.9	17.1	490	42,055	122	0	42,055	341,000	24,300	0	0	88,000	162,000	0	0	0	0	0
31	0.00	3.2	2.9	16.6	120	45,850	171	0	45,850	360,000	24,700	50,881	0	118,000	162,000	0	50,562	0	0	40,400
Total	15.67				15,340	1,238,861	2,520	50,052	1,288,913		894,600	460,155	0				269,090	0	686,403	215,300
Daily Average		3.0	3.2	18.2	495	39,963	81	1,615	41,578	380,200				107,700	197,400					
Mo. Average													0				8,700	0	22,100	6,950

projects\balance\2006\07-06bal.xls (Revised by Jer 8/25/06)

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
JULY 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 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled Contractor (gal.)	County (gal.)	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 Contractor (gal.)	County (gal.)	Effluent Dust Control (Sprayed) (gal.)
1	9.5	153,973	2,459,892	5,755,130	6,468,679	9.17	0	0	0	0.00	2.4	2.1	0.0	35,775	57,970	0	0	0
2	8.2	153,991	2,462,064	5,755,130	6,499,298	9.08	0	0	0	1.15	1.9	2.0	0.0	39,920	0	0	0	0
3	7.0	154,007	2,462,064	5,755,130	6,530,038	9.08	0	0	0	4.63	2.8	2.1	0.0	39,529	0	0	0	0
4	9.7	154,038	2,464,571	5,755,120	6,561,815	9.33	0	0	0	0.00	3.6	2.9	0.0	37,549	0	0	0	0
5	8.6	154,071	2,464,571	5,757,390	6,599,323	9.50	0	6,018	0	0.00	3.6	3.2	0.0	18,912	0	0	6,016	0
6	8.0	154,156	2,467,921	5,757,575	6,640,053	10.25	0	0	0	1.20	3.6	3.3	0.0	22,117	0	0	30,529	0
7	7.5	154,316	2,467,921	5,757,575	6,675,605	10.83	0	0	0	1.90	3.5	3.4	0.0	5,339	0	0	24,036	0
8	6.6	154,445	2,471,495	5,757,575	6,704,275	12.00	0	0	0	0.17	3.3	3.4	0.0	24,789	0	0	18,093	0
9	7.7	154,574	2,474,394	5,757,575	6,742,929	12.58	0	0	0	0.00	3.3	3.6	0.0	26,535	0	0	30,199	0
10	7.8	154,699	2,477,199	5,757,575	6,786,571	13.33	0	0	0	0.00	3.3	3.6	0.0	23,753	0	0	24,123	0
11	6.7	154,799	2,477,200	5,760,580	6,830,754	14.17	0	0	0	0.82	3.2	3.6	0.0	23,562	0	0	48,280	0
12	12.4	154,896	2,480,276	5,762,240	6,869,395	15.00	0	0	0	0.80	2.8	3.6	0.0	43,331	0	0	42,546	0
13	11.7	154,987	2,480,276	5,762,480	6,908,358	15.00	0	0	0	0.40	3.0	3.7	0.0	40,634	0	0	42,240	0
14	7.1	155,071	2,483,375	5,763,190	6,949,585	15.25	0	0	0	0.00	2.9	3.7	0.0	50,193	0	0	60,452	0
15	12.5	155,153	2,486,335	5,763,190	6,992,319	15.17	0	0	0	0.00	2.4	3.7	0.0	49,361	0	0	60,333	0
16	10.2	155,234	2,486,335	5,763,190	7,036,425	15.00	0	0	0	0.42	2.5	3.7	0.0	52,771	0	0	0	0
17	8.9	155,319	2,489,636	5,763,190	7,081,385	15.08	0	0	0	0.00	3.5	3.7	0.0	28,187	0	0	60,359	0
18	12.3	155,393	2,489,636	5,763,290	7,118,456	15.58	0	12,096	0	0.43	2.9	3.7	0.0	22,797	20,476	0	48,309	0
19	8.6	155,489	2,492,570	5,765,530	7,168,225	16.42	0	48,710	0	0.35	2.8	3.4	0.0	23,136	5,605	0	6,034	0
20	11.2	155,521	2,495,435	5,766,085	7,209,946	15.17	0	30,118	0	0.73	3.2	3.4	0.0	23,778	0	0	30,167	0
21	10.2	155,568	2,495,435	5,766,485	7,249,996	15.08	0	30,681	0	0.00	3.1	3.4	0.0	21,981	0	0	30,196	0
22	10.8	155,614	2,498,175	5,766,485	7,296,104	15.00	0	30,480	0	0.14	2.8	3.4	0.0	21,866	0	0	36,200	0
23	13.2	155,637	2,498,175	5,766,670	7,340,935	15.00	0	0	0	0.50	2.6	3.4	0.0	26,076	0	0	0	0
24	9.8	155,719	2,500,067	5,767,460	7,383,999	15.67	0	30,558	0	0.00	3.1	3.4	0.0	23,389	0	0	30,169	0
25	8.2	155,788	2,502,874	5,768,335	7,424,111	15.50	0	50,853	0	0.00	2.9	3.4	0.0	23,266	45,856	0	12,067	0
26	8.5	155,851	2,502,874	5,768,510	7,466,456	14.42	0	50,390	0	0.00	2.6	3.4	0.0	24,072	47,358	0	0	0
27	10.6	155,969	2,505,843	5,769,160	7,509,565	13.42	0	51,864	0	0.95	3.1	2.6	0.0	25,902	41,263	0	0	0
28	8.5	156,054	2,505,843	5,769,600	7,548,029	12.33	0	43,421	0	1.02	2.9	2.8	0.0	22,880	0	0	19,162	0
29	7.6	156,178	2,509,148	5,769,600	7,584,680	11.58	0	24,085	0	0.06	2.6	2.9	0.0	24,059	0	0	26,893	0
30	8.1	156,300	2,509,148	5,770,090	7,626,735	11.83	0	0	0	0.00	2.6	2.9	0.0	24,264	0	0	0	0
31	7.6	156,471	2,509,148	5,770,210	7,672,585	12.50	0	50,881	0	0.00	3.2	2.9	0.0	24,654	50,562	0	0	0

projects\balance\2006\07-06bal.xls (Revised by ler 8/25/06)

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

**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	0.93	0	0	0	0	0	0	0	0	0	0	0	0
September	0.00	0	0	0	0	0	0	0	0	0	0	0	0
October	0.00	0	0	0	0	0	0	0	0	0	0	0	0
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	30.74	0	437,724	7,761,647	1,455,353	267,627	7,483,500	843,611	0	6,073,955	8,199,371	9,206,480	-1,007,109

projects\balance\2006\2006-summary.xls (Revised by ler 8/25/06)

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.

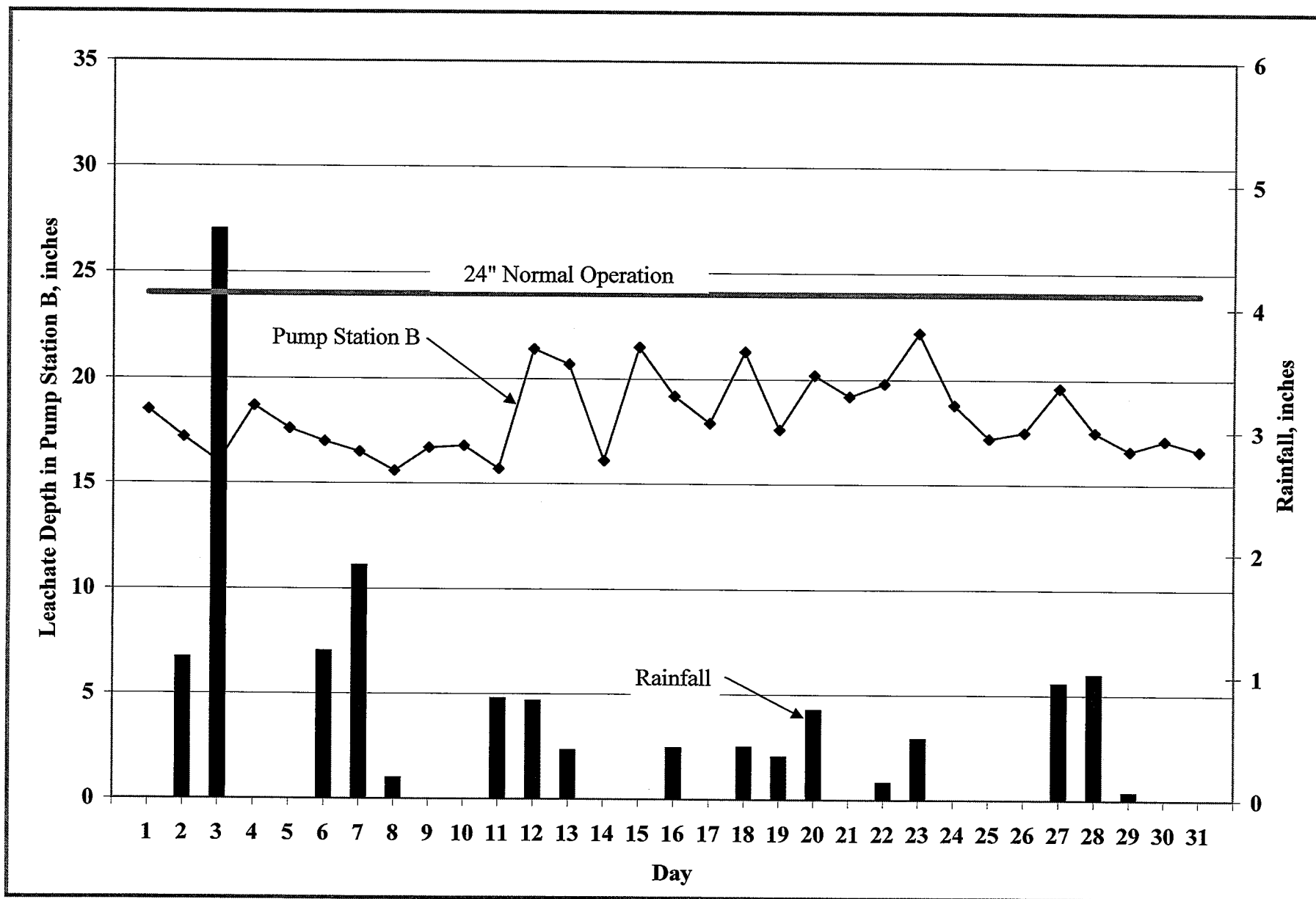


Figure 1. Leachate Levels in Pump Station B and Rainfall for July 2006.

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

(Month/Year) July, 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	260	0.00	9.5	34,955	796	22	9'2"	0	0		0.00
2	0.0	0	0.00	8.2	30,619	2,172	18	9'1"	0	0		1.15
3	0.0	0	0.00	7.0	30,740	0	16	9'1"	0	0		4.63
4	0.0	0	0.00	9.7	30,777	2,507	31	9'4"	0	0		0.00
5	0.0	2,270	0.00	8.6	37,508	0	33	9'6"	0	6,018		0.00
6	0.0	185	0.00	8.0	40,730	3,350	85	10'3"	0	0		1.20
7	0.0	0	0.00	7.5	35,552	0	160	10'10"	0	0		1.90
8	0.0	0	0.00	6.6	28,670	3,574	129	12'0"	0	0		0.17
9	0.0	0	0.00	7.7	38,654	2,899	129	12'7"	0	0		0.00
10	0.0	0	0.00	7.8	43,642	2,805	125	13'4"	0	0		0.00
11	0.0	3,005	0.00	6.7	44,185	0	100	14'2"	0	0		0.82
12	0.0	1,660	0.00	12.4	38,641	3,076	97	15'0"	0	0		0.80
13	0.0	240	0.00	11.7	38,963	0	91	15'0"	0	0		0.40
14	0.0	710	0.00	7.1	41,227	3,099	84	15'3"	0	0		0.00
15	0.0	0	0.00	12.5	42,734	2,960	82	15'2"	0	0		0.00
16	0.0	0	0.00	10.2	44,106	0	81	15'0"	0	0		0.42

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. Francis

Revised Jan. 16, 2004

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

(Month/Year) July, 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	8.9	44,960	3,301	85	15'1"	0	0		0.00
18	0.0	100	0.00	12.3	37,071	0	74	15'7"	0	12,096		0.43
19	0.0	2,240	0.00	8.6	49,769	2,934	96	16'5"	0	48,710		0.35
20	0.0	555	0.00	11.2	41,721	2,865	32	15'2"	0	30,118		0.73
21	0.0	400	0.00	10.2	40,050	0	47	15'1"	0	30,681		0.00
22	0.0	0	0.00	10.8	46,108	2,740	46	15'0"	0	30,480		0.14
23	0.0	185	0.00	13.2	44,831	0	23	15'0"	0	0		0.50
24	0.0	790	0.00	9.8	43,064	1,891	82	15'8"	0	30,558		0.00
25	0.0	875	0.00	8.2	40,112	2,807	69	15'8"	0	50,853		0.00
26	0.0	175	0.00	8.5	42,345	0	63	14'5"	0	50,390		0.00
27	0.0	650	0.00	10.6	43,109	2,969	181	13'5"	0	51,864		0.95
28	0.0	440	0.00	8.5	38,464	0	85	12'4"	0	43,421		1.02
29	0.0	0	0.00	7.6	36,651	3,305	124	11'7"	0	24,085		0.06
30	0.0	530	0.00	8.1	42,055	0	122	11'10"	0	0		0.00
31	0.0	120	0.00	7.6	45,850	0	171	12'6"	0	50,881		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. Grand

Revised Jan. 16, 2004

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EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year) July, 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	2.40	2.10	0	35,775	57,970		0	0			N	
2	1.90	2.00	0	39,920	0		0	0				
3	2.80	2.10	0	39,529	0		0	0				
4	3.60	2.90	0	37,549	0		0	0				
5	3.60	3.20	0	18,912	0		0	6,016				
6	3.60	3.30	0	22,117	0		0	30,529				
7	3.50	3.40	0	5,339	0		0	24,036				
8	3.30	3.40	0	24,789	0		0	18,093				
9	3.30	3.60	0	26,535	0		0	30,199				
10	3.30	3.60	0	23,753	0		0	24,123				
11	3.20	3.60	0	23,562	0		0	48,280				
12	2.80	3.60	0	43,331	0		0	42,546				
13	3.00	3.70	0	40,634	0		0	42,240				
14	2.90	3.70	0	50,193	0		0	60,452				
15	2.40	3.70	0	49,361	0		0	60,333				
16	2.50	3.70	0	52,771	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. Fane

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

(Month/Year) July, 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	3.50	3.70	0	28,187	0		0	60,359				
18	2.90	3.70	0	22,797	20,476		0	48,309				N
19	2.80	3.40	0	23,136	5,605		0	6,034				N
20	3.20	3.40	0	23,778	0		0	30,167				
21	3.10	3.40	0	21,981	0		0	30,196				
22	2.80	3.40	0	21,866	0		0	36,200				
23	2.60	3.40	0	26,076	0		0	0				
24	3.10	3.40	0	23,389	0		0	30,169				
25	3.10	3.40	0	23,266	59,019		0	12,067				N
26	2.60	3.40	0	24,072	47,358		0	0				N
27	3.10	2.60	0	25,902	41,263		0	0				N
28	2.90	2.80	0	22,880	0		0	19,162				
29	2.60	2.90	0	24,059	0		0	26,893				
30	2.70	2.90	0	24,264	0		0	0				
31	3.20	2.90	0	24,654	50,562		0	0				N

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

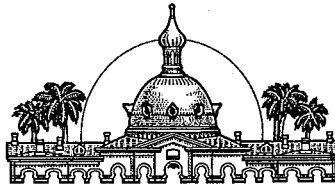
(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(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. Braver



**Hillsborough County
Florida**

Office of the County Administrator
Patricia G. Bean

Deputy County Administrator
Wally Hill

Assistant County Administrators
Kenneth C. Griffin
Carl S. Harness
Manus J. O' Donnell

**Dept. of Environmental
Protection**

September 29, 2006

OCT 16 2006

Southwest District

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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 –August 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 August 2006. In addition, the SWMD is providing the August 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

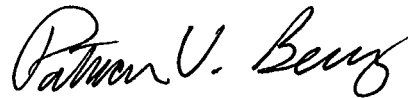
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO,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

As initiated with the April 1996 report, the Landfill leachate information for August 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 August 6 due to power outage. The average depth of leachate in the PS-B sump for the recorded days in August 2006 was 17.1 inches.

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

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

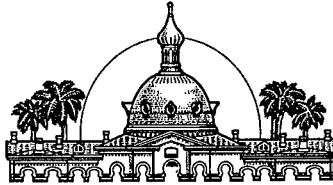
Sincerely,

A handwritten signature in black ink, appearing to read "Patricia V. Berry". The signature is fluid and cursive, with the first name "Patricia" being more prominent and the last name "Berry" following in a similar style.

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

Attachments

glfs/lea0806.dep



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: September 27, 2006

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

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

SUBJECT: Leachate Water Balance Report Forms for August 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 August 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 7.89 inches 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 3.0 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 2.6 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 August 6 due to power outage. The average depth of leachate in the PS-B sump was 17.1 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 leachate removed from TPS-6 continues to decline. The average daily amount of leachate pumped from TPS-6 was 362 gallons. A total of 11,230 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 43,303 gallons. A total of 1,342,399 gallons of leachate was pumped to the storage tank this month.

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 back into the Section 7 sump for removal with Section 7 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 4,153 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). This month 66,496 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 1,408,895 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 350,300 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 831,600 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 706,832 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 3,064 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 111,500 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 130,300 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 596,768 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 a total of 285,856 gallons of effluent was 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 480,000 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 1,408,895 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,541,496 gallons. The change in storage for the month of August decreased by 132,601 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
AUGUST 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 Det (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	2.8	2.9	18.7	510	44,019	158	0	44,019	329,000	24,000	44,928	0	98,000	162,000	0	71,695	0	0	57,400
2	0.00	2.5	2.6	19.1	370	41,730	233	4,545	46,275	317,000	29,200	6,660	0	83,000	133,000	0	35,581	0	6,380	28,500
3	0.00	2.9	2.3	21.0	290	44,848	226	2,896	47,744	329,000	29,000	26,827	0	103,000	106,000	0	0	0	0	0
4	0.03	2.9	2.0	22.5	0	43,805	157	2,701	46,506	324,000	21,600	20,002	0	103,000	80,000	0	23,592	0	0	18,900
5	0.57	2.9	2.0	17.8	0	44,946	68	0	44,946	329,000	11,000	19,871	0	103,000	80,000	0	0	0	0	0
6	0.32	3.1	2.1	33.2	0	20,702	0	1,205	21,907	326,000	23,200	0	0	113,000	88,000	0	0	0	0	0
7	0.03	3.5	2.1	17.6	0	54,310	301	2,934	57,244	365,000	21,600	0	0	140,000	88,000	0	0	0	0	0
8	0.00	3.6	2.3	22.5	1,440	41,459	96	0	41,459	389,000	21,400	37,541	0	145,000	106,000	0	49,532	0	0	39,600
9	0.00	3.0	2.3	12.9	2,430	45,992	115	2,871	48,863	379,000	27,100	37,555	0	108,000	106,000	0	42,656	0	0	34,100
10	0.00	2.7	2.3	13.2	1,120	47,352	100	0	47,352	360,000	28,500	32,104	0	93,000	106,000	0	44,640	0	0	35,700
11	0.00	2.8	2.1	19.8	0	44,738	116	3,073	47,811	358,000	30,100	13,358	0	98,000	88,000	0	44,496	0	0	35,600
12	0.00	2.7	1.9	15.3	930	48,489	79	0	48,489	358,000	19,700	0	0	93,000	72,000	0	0	0	0	0
13	1.05	3.0	1.9	13.0	0	43,972	114	2,687	46,659	391,000	34,300	0	0	108,000	72,000	0	0	0	0	0
14	0.00	3.6	2.1	12.9	0	44,913	75	0	44,913	410,000	29,800	33,123	3,064	145,000	88,000	0	0	0	0	2,500
15	1.43	3.6	2.3	15.0	630	44,339	97	2,737	47,076	386,000	31,700	33,183	0	145,000	106,000	0	45,950	0	0	36,800
16	0.00	3.4	2.5	15.4	1,160	44,214	64	0	44,214	365,000	26,900	19,864	0	129,000	124,000	0	0	0	19,711	0
17	1.53	3.5	2.6	14.8	315	41,325	108	2,740	44,065	362,000	29,300	56,843	0	140,000	133,000	0	45,070	0	0	36,100
18	0.00	3.3	2.7	15.4	0	41,090	131	2,573	43,663	338,000	27,100	18,846	0	123,000	143,000	0	0	0	32,894	0
19	0.85	3.1	2.7	14.6	475	42,082	131	2,589	44,671	345,000	32,000	18,069	0	113,000	143,000	0	0	0	40,112	0
20	0.16	3.1	2.8	15.9	0	39,515	175	2,454	41,969	345,000	35,500	0	0	113,000	152,000	0	0	0	0	0
21	0.00	3.6	2.8	15.9	0	41,833	160	3,173	45,006	358,000	28,100	44,238	0	145,000	152,000	0	45,378	0	0	36,300
22	0.44	3.2	2.9	15.6	570	40,536	185	5,544	46,080	333,000	30,100	56,794	0	118,000	162,000	0	40,482	0	0	32,400
23	0.00	3.0	2.9	14.7	0	41,722	215	2,594	44,316	293,000	29,200	25,690	0	108,000	162,000	0	0	0	0	0
24	0.32	3.5	2.9	15.6	0	42,864	103	2,584	45,448	293,000	22,000	23,098	0	140,000	162,000	0	21,146	0	0	16,900
25	0.26	3.5	3.0	15.7	760	44,982	139	2,767	47,749	300,000	8,000	5,527	0	140,000	172,000	0	0	0	30,859	0
26	0.23	3.0	3.1	15.8	10	42,004	36	2,980	44,984	345,000	21,800	0	0	108,000	182,000	0	0	0	62,417	0
27	0.00	2.3	3.1	15.9	0	42,318	38	2,395	44,713	345,000	23,800	0	0	74,000	182,000	0	0	0	0	0
28	0.00	2.6	3.1	14.7	0	42,207	3	2,506	44,713	394,000	23,000	11,586	0	88,000	182,000	0	35,934	0	12,456	28,700
29	0.27	2.2	3.1	15.0	0	46,721	443	2,563	49,284	408,000	29,000	67,896	0	70,000	182,000	0	50,616	0	0	40,500
30	0.25	2.6	3.1	20.5	210	45,144	131	2,584	47,728	358,000	40,800	29,620	0	88,000	182,000	0	0	0	41,015	0
31	0.15	2.5	2.7	19.2	10	48,228	156	801	49,029	326,000	42,800	23,609	0	83,000	143,000	0	0	0	40,012	0
Total	7.89				11,230	1,342,399	4,153	66,496	1,408,895		831,600	706,832	3,064				596,768	0	285,856	480,000
Daily Average		3.0	2.6	17.1	362	43,303	134	2,145	45,448	350,300				111,500	130,300	0				
Mo. Average													100				19,300	0	9,200	15,480

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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, XVII, 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
AUGUST 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 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	9.7	156,629	2,509,148	5,770,720	7,716,604	11.42	0	44,928	0	0.00	2.8	2.9	0	24,028	71,695	0	0	0
2	10.1	156,862	2,513,693	5,771,090	7,758,334	11.00	0	6,660	0	0.00	2.5	2.6	0	29,179	35,581	0	6,380	0
3	12.0	157,088	2,516,589	5,771,380	7,803,182	11.42	0	26,827	0	0.00	2.9	2.3	0	29,008	0	0	0	0
4	13.5	157,245	2,519,290	5,771,380	7,846,987	11.25	0	20,002	0	0.03	2.9	2.0	0	21,563	23,592	0	0	0
5	8.8	157,313	2,519,290	5,771,380	7,891,933	11.42	0	19,871	0	0.57	2.9	2.0	0	10,986	0	0	0	0
6	24.2	157,313	2,520,495	5,771,380	7,912,635	11.33	0	0	0	0.32	3.1	2.1	0	23,166	0	0	0	0
7	8.6	157,614	2,523,429	5,771,380	7,966,945	12.67	0	0	0	0.03	3.5	2.1	0	21,621	0	0	0	0
8	13.5	157,710	2,523,429	5,772,820	8,008,404	13.50	0	37,541	0	0.00	3.6	2.3	0	21,405	49,532	0	0	0
9	3.9	157,825	2,526,300	5,775,250	8,054,396	13.17	0	37,555	0	0.00	3.0	2.3	0	27,106	42,656	0	0	0
10	4.2	157,925	2,526,300	5,776,370	8,101,748	12.50	0	32,104	0	0.00	2.7	2.3	0	28,471	44,640	0	0	0
11	10.8	158,041	2,529,373	5,776,370	8,146,486	12.42	0	13,358	0	0.00	2.8	2.1	0	30,080	44,496	0	0	0
12	6.3	158,120	2,529,373	5,777,300	8,194,975	12.42	0	0	0	0.00	2.7	1.9	0	19,675	0	0	0	0
13	4.0	158,234	2,532,060	5,777,300	8,238,947	13.58	0	0	0	1.05	3.0	1.9	0	34,340	0	0	0	0
14	3.9	158,309	2,532,060	5,777,300	8,283,860	14.25	0	33,123	3,064	0.00	3.6	2.1	0	29,826	0	0	0	0
15	6.0	158,406	2,534,797	5,777,930	8,328,199	13.42	0	33,183	0	1.43	3.6	2.3	0	31,699	45,950	0	0	0
16	6.4	158,470	2,534,797	5,779,090	8,372,413	12.67	0	19,864	0	0.00	3.4	2.5	0	26,907	0	0	19,711	0
17	5.8	158,578	2,537,537	5,779,405	8,413,738	12.58	0	56,843	0	1.53	3.5	2.6	0	29,253	45,070	0	0	0
18	6.4	158,709	2,540,110	5,779,405	8,454,828	11.75	0	18,846	0	0.00	3.3	2.7	0	27,103	0	0	32,894	0
19	5.6	158,840	2,542,699	5,779,880	8,496,910	12.00	0	18,069	0	0.85	3.1	2.7	0	31,967	0	0	40,112	0
20	6.9	159,015	2,545,153	5,779,880	8,536,425	12.00	0	0	0	0.16	3.1	2.8	0	35,533	0	0	0	0
21	6.9	159,175	2,548,326	5,779,880	8,578,258	12.42	0	44,238	0	0.00	3.6	2.8	0	28,146	45,378	0	0	0
22	6.6	159,360	2,553,870	5,780,450	8,618,794	11.58	0	56,794	0	0.44	3.2	2.9	0	30,136	40,482	0	0	0
23	5.7	159,575	2,556,464	5,780,450	8,660,516	10.17	0	25,690	0	0.00	3.0	2.9	0	29,223	0	0	0	0
24	6.6	159,678	2,559,048	5,780,450	8,703,380	10.17	23,098	0	0	0.32	3.5	2.9	0	21,970	21,146	0	0	0
25	6.7	159,817	2,561,815	5,781,210	8,748,362	10.42	5,527	0	0	0.26	3.5	3.0	0	8,017	0	30,859	0	0
26	6.8	159,853	2,564,795	5,781,220	8,790,366	12.00	0	0	0	0.23	3.0	3.1	0	21,753	0	62,417	0	0
27	6.9	159,891	2,567,190	5,781,220	8,832,684	12.00	0	0	0	0.00	2.3	3.1	0	23,847	0	0	0	0
28	5.7	159,894	2,569,696	5,781,220	8,874,891	13.67	11,586	0	0	0.00	2.6	3.1	0	23,004	35,934	12,456	0	0
29	6.0	160,337	2,572,259	5,781,220	8,921,612	14.17	55,632	12,264	0	0	2.2	3.1	0	28,976	50,616	0	0	0
30	11.5	160,468	2,574,843	5,781,430	8,966,756	12.42	11,545	18,075	0	0.25	2.6	3.1	0	40,780	0	41,015	0	0
31	10.2	160,624	2,575,644	5,781,440	9,014,984	11.33	11,568	12,041	0	0.15	2.5	2.7	0	42,790	0	40,012	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

**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	0.00	0	0	0	0	0	0	0	0	0	0	0	0
October	0.00	0	0	0	0	0	0	0	0	0	0	0	0
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	37.7	0	504,220	9,104,046	2,162,185	270,691	8,315,100	1,129,467	0	6,670,723	9,608,266	10,747,976	-1,139,710

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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.

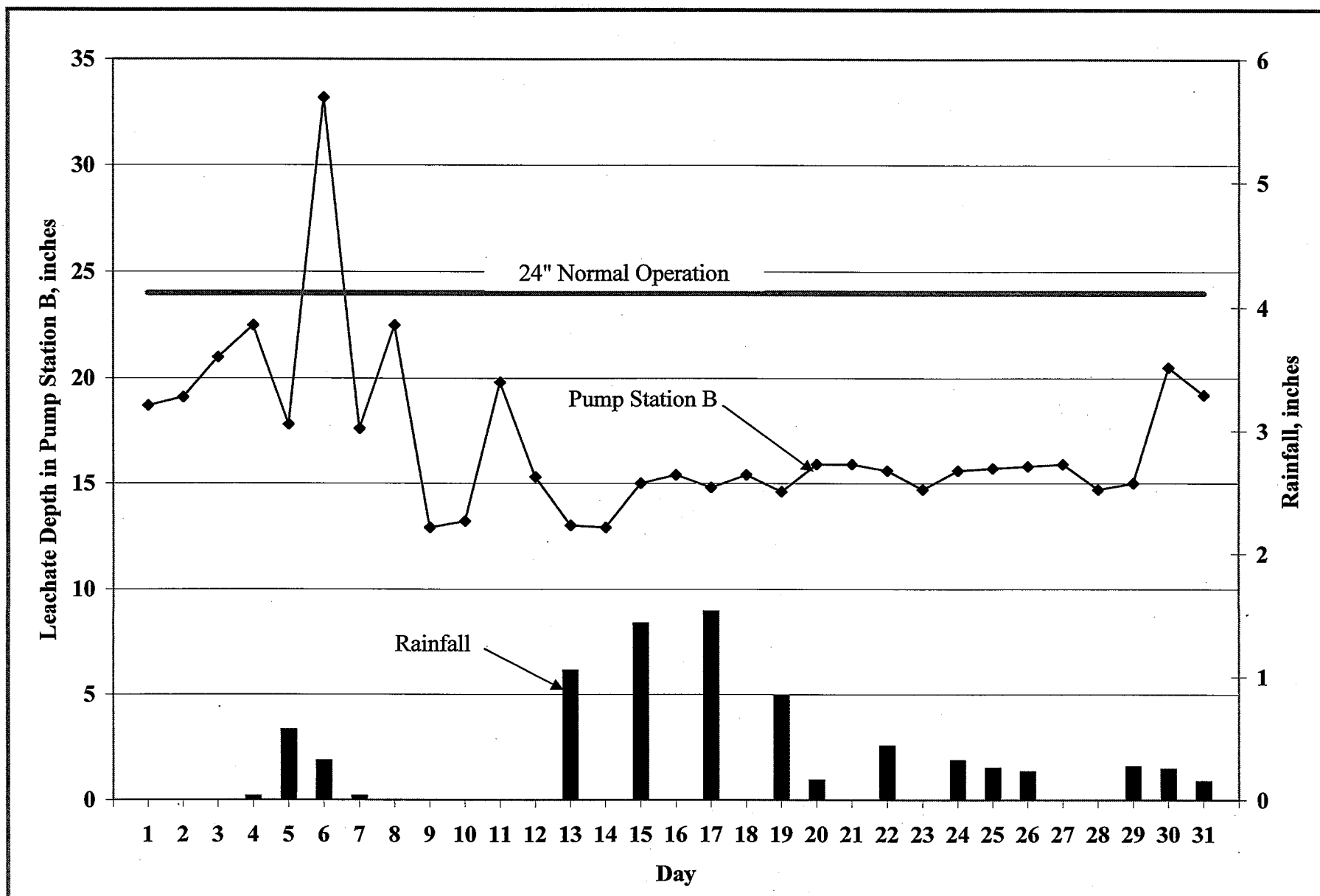


Figure 1. Leachate Levels in Pump Station B and Rainfall for August 2006.

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

(Month/Year) August, 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	510	0.00	9.7	44,019	0	158	11'5"	0	44,928		0.00
2	0.0	370	0.00	10.1	41,730	4,545	233	11'0"	0	6,660		0.00
3	0.0	290	0.00	12.0	44,848	2,896	226	011'5"	0	26,827		0.00
4	0.0	0	0.00	13.5	43,805	2,701	157	11'3"	0	20,002		0.03
5	0.0	0	0.00	8.8	44,946	0	68	11'5"	0	19,871		0.57
6	0.0	0	0.00	24.2	20,702	1,204	0	11'4"	0	0		0.32
7	0.0	0	0.00	8.6	54,310	2,934	301	12'8"	0	0		0.03
8	0.0	1,440	0.00	13.5	41,459	0	96	13'6"	0	37,541		0.00
9	0.0	2,430	0.00	3.9	45,992	2,871	115	13'2"	0	37,555		0.00
10	0.0	1,120	0.00	4.2	47,352	0	100	12'6"	0	32,104		0.00
11	0.0	0	0.00	10.8	44,738	3,073	116	12'5"	0	13,358		0.00
12	0.0	930	0.00	6.3	48,489	0	79	12'5"	0	0		0.00
13	0.0	0	0.00	4.0	43,972	2,695	114	13'7"	0	0		1.05
14	0.0	0	0.00	3.9	44,913	0	75	14'3"	0	33,123		0.00
15	0.0	630	0.00	6.0	44,339	2,737	97	13'5"	0	33,183		1.43
16	0.0	1,160	0.00	6.4	44,214	0	64	12'8"	0	19,864		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: *Racmond C. Jones*

Revised Jan. 16, 2004

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

(Month/Year) August, 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	315	0.00	5.8	41,325	2,740	108	12'7"	0	56,843		1.53
18	0.0	0	0.00	6.4	41,090	2,573	131	11'9"	0	18,846		0.00
19	0.0	475	0.00	5.6	42,082	2,589	131	12'0"	0	18,069		0.85
20	0.0	0	0.00	6.9	39,515	2,454	175	12'0"	0	0		0.16
21	0.0	0	0.00	6.9	41,833	3,173	160	12'5'	0	44,238		0.00
22	0.0	570	0.00	6.6	40,536	5,544	185	11'7"	0	56,794		0.44
23	0.0	0	0.00	5.7	41,722	2,594	165	10'2"	0	25,690		0.00
24	0.0	0	0.00	6.6	42,864	2,584	153	10'2"	23,098	0		0.32
25	0.0	760	0.00	6.7	44,982	2,767	139	10'5"	5,527	0		0.26
26	0.0	10	0.00	6.8	42,004	2,980	36	12'0"	0	0		0.23
27	0.0	0	0.00	6.9	42,318	2,395	38	12'0"	0	0		0.00
28	0.0	0	0.00	5.7	42,207	2,506	3	13'8"	11,586	0		0.00
29	0.0	0	0.00	6.0	46,721	2,563	443	14'2"	55,632	12,264		0.27
30	0.0	210	0.00	11.5	45,144	2,584	131	12'5"	11,545	18,075		0.25
31	0.0	10	0.00	10.2	48,228	801	156	11'4'	11,568	12,041		0.15

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. Shaw

Revised Jan. 16, 2004

09200020.24\Leachate Balance\LeachateData_LeachateData_August,2006.xls

EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year)

August, 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	2.80	2.90	0	24,028	71,695	0	0	0			N	
2	2.50	2.60	0	29,179	35,581	0	0	6,380			N	
3	2.90	2.30	0	29,008	0	0	0	0				
4	2.90	2.00	0	21,563	23,592	0	0	0			N	
5	2.90	2.00	0	10,986	0	0	0	0				
6	3.10	2.10	0	23,166	0	0	0	0				
7	3.50	2.10	0	21,621	0	0	0	0				
8	3.60	2.30	0	21,405	49,532	0	0	0			N	
9	3.00	2.30	0	27,106	42,656	0	0	0			N	
10	2.70	2.30	0	28,471	44,640	0	0	0			N	
11	2.80	2.10	0	30,080	44,496	0	0	0			N	
12	2.70	1.80	0	19,675	0	0	0	0				
13	3.00	1.90	0	34,340	0	0	0	0				
14	3.60	2.10	0	29,826	0	0	0	0				
15	3.60	2.30	0	31,699	45,950	0	0	0			N	
16	3.40	2.50	0	26,907	0	0	0	19,711				

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

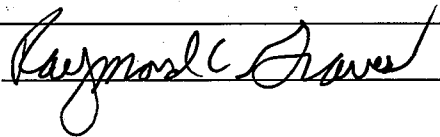
(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(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:



EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year)

August, 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	3.50	2.60	0	29,253	45,070	0	0	0				N
18	3.30	2.70	0	27,103	0	0	0	32,894				
19	3.10	2.70	0	31,967	0	0	0	40,112				
20	3.10	2.80	0	35,533	0	0	0	0				
21	3.60	2.80	0	28,146	45,378	0	0	0				N
22	3.20	2.90	0	30,136	40,482	0	0	0				N
23	3.00	2.90	0	29,223	0	0	0	0				
24	3.50	2.90	0	21,970	21,146	0	0	0				N
25	3.50	3.00	0	8,017	0	0	30,859	0				
26	3.00	3.10	0	21,753	0	0	62,417	0				
27	2.30	3.10	0	23,847	0	0	0	0				
28	2.60	3.10	0	23,004	35,934	0	12,456	0				N
29	2.20	3.10	0	28,976	50,616	0	0	0				N
30	2.60	3.10	0	40,780	0	0	41,015	0				
31	2.50	2.70	0	42,790	0	0	40,012	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.

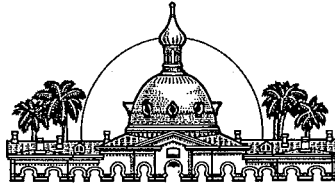
(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

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

Comments:

Prepared by:

Raymond C. Jones



**Hillsborough County
Florida**

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Patricia G. Bean

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October 12, 2006

**Dept. of Environmental
Protection**

OCT 16 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

Southwest District

RE: Southeast County Landfill --September 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 September 2006. In addition, the SWMD is providing the September 2006 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

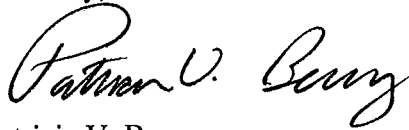
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO,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

As initiated with the April 1996 report, the Landfill leachate information for September 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 September 10 and 13 due to pump malfunction. The average depth of leachate in the PS-B sump for the recorded days in September 2006 was 19.7 inches.

Ms. Susan J. Pelz
October 12, 2006
Page Two

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

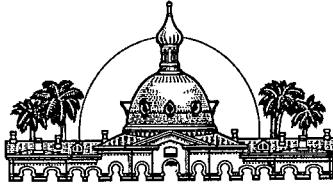
Sincerely,

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

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

Attachments

glfs/lea0906.dep ..



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: October 11, 2006

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

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

SUBJECT: Leachate Water Balance Report Forms for September 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 September 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 6.46 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

October 11, 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 2.9 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 2.9 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 September 10 and 13 due to pump malfunction. The average depth of leachate in the PS-B sump was 19.7 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 leachate removed from TPS-6 continues to decline. The average daily amount of leachate pumped from TPS-6 was 270 gallons. A total of 8,110 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 42,957 gallons. A total of 1,288,709 gallons of leachate was pumped to the storage tank this month.

MEMORANDUM

October 11, 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 3,162 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. Until the flow meter is replaced, the SWMD will use the calculated daily mean value of 1,950 gallons per day (based on the year to date removal). This month 81,290 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 1,369,999 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 351,100 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 913,600 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 731,492 gallons of leachate was hauled off site.

MEMORANDUM

October 11, 2006

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 103,600 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 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 157,900 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 329,191 gallons of effluent was used as spray irrigation.

MEMORANDUM

October 11, 2006

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 a total of 637,975 gallons of effluent was 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 263,300 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 1,369,999 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,645,092 gallons. The change in storage for the month of September decreased by 275,093 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
SEPTEMBER 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 Det (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	0.50	2.6	2.7	21.1	60	43,374	134	1,768	45,142	322,000	44,500	11,556	0	88,000	143,000	0	0	0	28,505	0
2	0.04	2.7	2.7	15.0	0	42,886	127	2,638	45,524	329,000	42,100	0	0	93,000	143,000	0	0	0	51,548	0
3	0.20	2.6	2.7	15.0	0	40,100	96	2,693	42,793	333,000	24,100	0	0	88,000	143,000	0	0	0	0	0
4	0.20	3.1	2.8	14.8	30	42,666	111	2,471	45,137	360,000	22,700	0	0	113,000	152,000	0	0	0	0	0
5	1.50	3.5	2.8	14.4	0	38,584	90	2,823	41,407	379,000	23,200	6,042	0	140,000	152,000	0	0	0	40,052	0
6	0.00	3.4	3.0	20.5	540	39,432	96	5,308	44,740	408,000	29,600	5,571	0	129,000	172,000	0	0	0	36,003	0
7	0.10	3.1	3.0	21.9	260	40,665	134	2,674	43,339	422,000	32,000	0	0	113,000	172,000	0	0	0	53,569	0
8	0.01	2.8	2.9	21.1	280	42,793	158	2,735	45,528	441,000	37,100	12,624	0	98,000	162,000	0	0	0	81,093	0
9	0.60	2.0	2.9	18.5	465	43,206	156	2,865	46,071	434,000	36,700	25,051	0	61,000	162,000	0	0	0	22,036	0
10	0.90	2.6	2.9	33.7	0	15,554	132	3,937	19,491	403,000	38,000	0	0	88,000	162,000	0	0	0	0	0
11	0.01	3.2	3.0	15.7	0	60,278	131	3,936	64,214	432,000	31,400	18,285	0	118,000	172,000	0	0	0	27,559	0
12	0.00	3.2	3.0	15.4	65	43,830	128	5,253	49,083	432,000	29,900	24,322	0	118,000	172,000	0	0	0	33,073	0
13	0.10	3.2	3.0	25.2	680	41,166	141	2,608	43,774	422,000	29,100	18,500	0	118,000	172,000	0	0	0	12,029	0
14	0.00	3.4	3.0	21.1	800	51,174	142	2,674	53,848	437,000	28,200	24,150	0	129,000	172,000	0	0	0	36,065	0
15	0.00	3.3	3.0	20.1	630	47,760	137	2,705	50,465	437,000	31,000	36,591	0	123,000	172,000	0	34,960	0	12,009	28,000
16	0.30	3.0	3.0	21.7	0	44,512	122	2,648	47,160	408,000	27,800	60,454	0	108,000	172,000	0	40,623	0	0	32,500
17	0.00	2.8	3.0	20.6	335	41,780	116	2,547	44,327	384,000	30,000	0	0	98,000	172,000	0	0	0	0	0
18	0.00	3.3	3.0	20.9	0	44,748	117	2,554	47,302	386,000	28,700	59,337	0	123,000	172,000	0	44,420	0	0	35,500
19	1.00	3.0	3.0	19.5	155	44,384	91	0	44,384	345,000	29,300	67,373	0	108,000	172,000	0	36,797	0	0	29,400
20	1.00	3.0	3.0	21.1	50	43,948	97	2,705	46,653	307,000	28,500	32,108	0	108,000	172,000	0	0	0	27,916	0
21	0.00	2.8	3.0	20.4	0	42,126	94	5,135	47,261	309,000	28,700	24,078	0	98,000	172,000	0	0	0	42,073	0
22	0.00	2.5	3.0	19.6	0	44,080	92	3,013	47,093	307,000	29,700	18,058	0	83,000	172,000	0	0	0	42,074	0
23	0.00	2.2	3.0	18.6	140	41,308	104	1,950	43,258	307,000	28,000	24,073	0	70,000	172,000	0	0	0	42,064	0
24	0.00	2.1	3.0	20.0	140	42,979	94	1,950	44,929	309,000	30,400	0	0	65,000	172,000	0	0	0	0	0
25	0.00	2.5	3.0	21.4	0	45,154	97	1,950	47,104	329,000	30,600	40,100	0	83,000	172,000	0	43,332	0	21,044	34,700
26	0.00	3.2	2.5	18.1	0	42,218	93	1,950	44,168	295,000	28,700	51,123	0	118,000	124,000	0	0	0	0	0
27	0.00	3.4	2.5	18.9	1,870	46,293	97	1,950	48,243	269,000	27,500	51,096	0	129,000	124,000	0	45,505	0	0	36,400
28	0.00	3.0	2.5	17.3	0	45,984	11	1,950	47,934	233,000	27,100	64,144	0	108,000	124,000	0	42,754	0	0	34,200
29	0.00	2.8	2.4	20.9	710	41,169	19	1,950	43,119	187,000	29,700	56,856	0	98,000	115,000	0	40,800	0	0	32,600
30	0.00	2.7	2.3	18.3	900	44,558	5	1,950	46,508	168,000	29,300	0	0	93,000	106,000	0	0	0	29,263	0
Total	6.46				8,110	1,288,709	3,162	81,290	1,369,999		913,600	731,492	0				329,191	0	637,975	263,300
Daily Average		2.9	2.9	19.7	270	42,957	105	2,710	45,667	351,100				103,600	157,900	0				
Mo. Average													0				11,000	0	21,300	8,780

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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
SEPTEMBER 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	12.1	160,758	2,577,412	5,781,500	9,058,358	11.17	5,533	6,023	0	0.50	2.6	2.7	0.0	44,460	0	16,487	12,018	0
2	6.0	160,885	2,580,050	5,781,500	9,101,244	11.42	0	0	0	0.04	2.7	2.7	0.0	42,104	0	27,492	24,056	0
3	6.0	160,981	2,582,743	5,781,500	9,141,344	11.58	0	0	0	0.20	2.6	2.7	0.0	24,091	0	0	0	0
4	5.8	161,092	2,585,214	5,781,530	9,184,010	12.50	0	0	0	0.20	3.1	2.8	0.0	22,680	0	0	0	0
5	5.4	161,182	2,588,037	5,781,530	9,222,594	13.17	0	6,042	0	1.50	3.5	2.8	0.0	23,206	0	27,511	12,541	0
6	11.5	161,278	2,593,345	5,782,070	9,262,026	14.17	5,571	0	0	0.00	3.4	3.0	0.0	29,592	0	16,517	19,486	0
7	12.9	161,412	2,596,019	5,782,330	9,302,691	14.67	0	0	0	0.10	3.1	3.0	0.0	32,042	0	27,513	26,056	0
8	12.1	161,570	2,598,754	5,782,610	9,345,484	15.33	0	12,624	0	0.01	2.8	2.9	0.0	37,089	0	74,587	6,506	0
9	9.5	161,726	2,601,619	5,783,075	9,388,690	15.08	0	25,051	0	0.60	2.0	2.9	0.0	36,711	0	22,036	0	0
10	24.7	161,858	2,605,556	5,783,075	9,404,244	14.00	0	0	0	0.90	2.6	2.9	0.0	37,965	0	0	0	0
11	6.7	161,989	2,609,492	5,783,075	9,464,522	15.00	0	18,285	0	0.01	3.2	3.0	0.0	31,441	0	27,559	0	0
12	6.4	162,117	2,614,745	5,783,140	9,508,352	15.00	0	24,322	0	0.00	3.2	3.0	0.0	29,891	0	33,073	0	0
13	16.2	162,258	2,617,353	5,783,820	9,549,518	14.67	0	18,500	0	0.10	3.2	3.0	0.0	29,100	0	12,029	0	0
14	12.1	162,400	2,620,027	5,784,620	9,600,692	15.17	0	24,150	0	0.00	3.4	3.0	0.0	28,158	0	36,065	0	0
15	11.1	162,537	2,622,732	5,785,250	9,648,452	15.17	18,476	18,115	0	0.00	3.3	3.0	0.0	30,958	34,960	12,009	0	0
16	12.7	162,659	2,625,380	5,785,250	9,692,964	14.17	36,240	24,214	0	0.30	3.0	3.0	0.0	27,820	40,623	0	0	0
17	11.6	162,775	2,627,927	5,785,585	9,734,744	13.33	0	0	0	0.00	2.8	3.0	0.0	29,985	0	0	0	0
18	11.9	162,892	2,630,481	5,785,585	9,779,492	13.42	41,237	18,100	0	0.00	3.3	3.0	0.0	28,748	44,420	0	0	0
19	10.5	162,983	2,630,481	5,785,740	9,823,876	12.00	49,294	18,079	0	1.00	3.0	3.0	0.0	29,305	36,797	0	0	0
20	12.1	163,080	2,633,186	5,785,790	9,867,824	10.67	14,046	18,062	0	1.00	3.0	3.0	0.0	28,537	0	27,916	0	0
21	11.4	163,174	2,638,321	5,785,790	9,909,950	10.75	0	24,078	0	0.00	2.8	3.0	0.0	28,718	0	42,073	0	0
22	10.6	163,266	2,641,334	5,785,790	9,954,030	10.67	0	18,058	0	0.00	2.5	3.0	0.0	29,709	0	42,074	0	0
23	9.6	163,370	2,641,334	5,785,930	9,995,338	10.67	0	24,073	0	0.00	2.2	3.0	0.0	28,032	0	42,064	0	0
24	11.0	163,464	2,641,334	5,786,070	38,317	10.75	0	0	0	0.00	2.1	3.0	0.0	30,358	0	0	0	0
25	12.4	163,561	2,641,334	5,786,070	83,471	11.42	28,054	12,046	0	0.00	2.5	3.0	0.0	30,588	43,332	21,044	0	0
26	9.1	163,654	2,641,334	5,786,070	125,689	10.25	51,123	0	0	0.00	3.2	2.5	0.0	28,687	0	0	0	0
27	9.9	163,751	2,641,334	5,787,940	171,982	9.33	51,096	0	0	0.00	3.4	2.5	0.0	27,501	45,505	0	0	0
28	8.3	163,762	2,641,334	5,787,940	217,966	8.08	51,103	13,041	0	0.00	3.0	2.5	0.0	27,091	42,754	0	0	0
29	11.9	163,781	2,641,334	5,788,650	259,135	6.50	43,806	13,050	0	0.00	2.8	2.4	0.0	29,713	40,800	0	0	0
30	9.3	163,786	2,641,334	5,789,550	303,693	5.83	0	0	0	0.00	2.7	2.3	0.0	29,315	0	29,263	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

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	0.00	0	0	0	0	0	0	0	0	0	0	0	0
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	44.16	0	585,510	10,392,755	2,893,677	270,691	9,228,700	1,767,442	0	6,999,914	10,978,265	12,393,068	-1,414,803

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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.

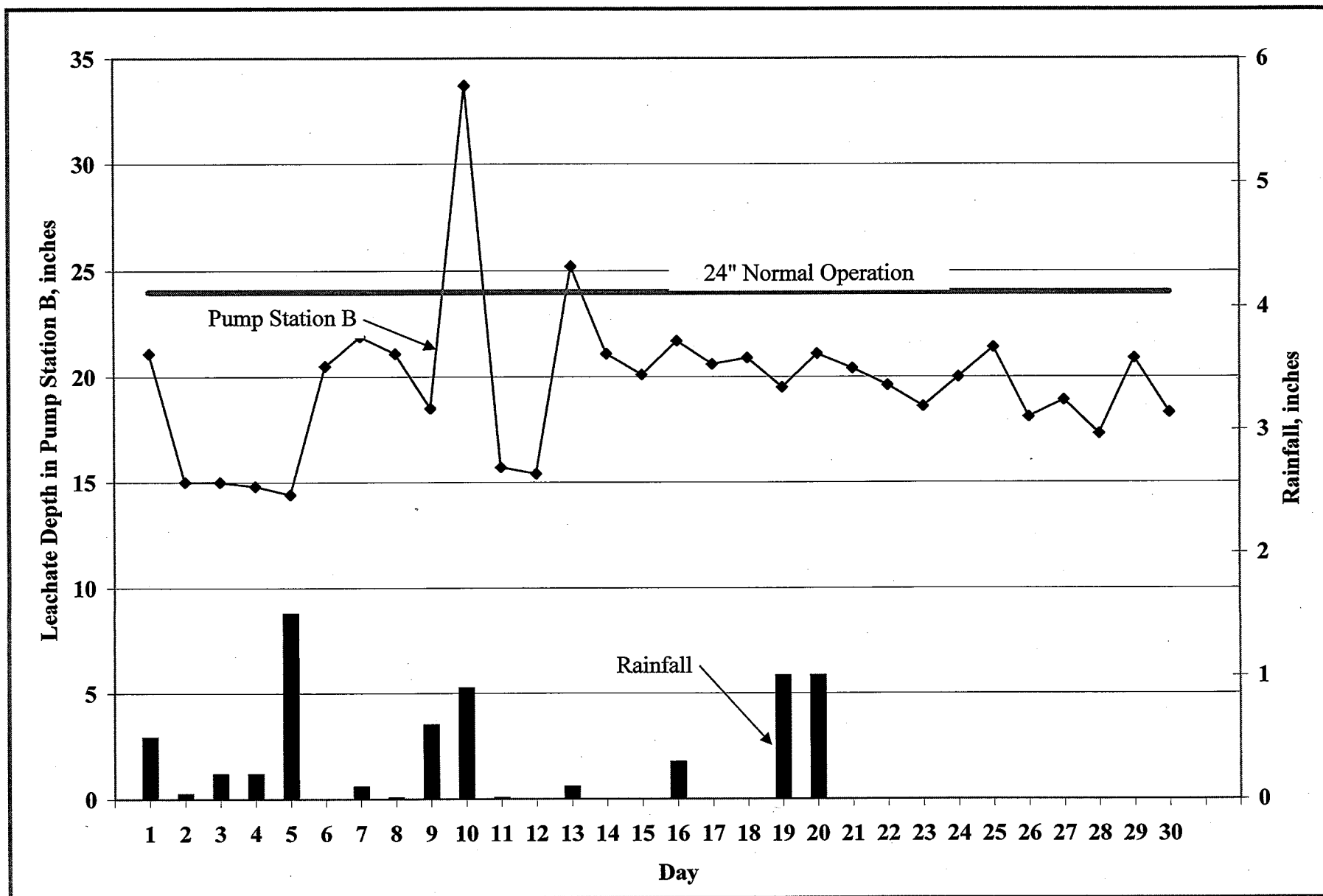


Figure 1. Leachate Levels in Pump Station B and Rainfall for September 2006.

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

(Month/Year) September, 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	60	0.00	12.1	43,374	1,768	134	11'2"	5,533	6,023		0.50
2	0.0	0	0.00	6.0	42,886	2,638	127	11'5"	0	0		0.04
3	0.0	0	0.00	6.8	40,100	2,693	96	11'7"	0	0		0.20
4	0.0	30	0.00	5.8	42,666	2,471	111	12'6"	0	0		0.20
5	0.0	0	0.00	5.4	38,584	2,823	90	13'2"	0	6,042		1.50
6	0.0	540	0.00	11.5	39,432	5,308	96	14'2"	5,571	0		0.00
7	0.0	260	0.00	12.9	40,665	2,674	134	14'8"	0	0		0.10
8	0.0	280	0.00	12.1	42,793	2,735	158	15'4"	0	12,624		0.01
9	0.0	465	0.00	9.5	43,206	2,865	156	15'1"	0	25,051		0.60
10	0.0	0	0.00	24.7	15,554	3,937	132	14'0"	0	0		0.90
11	0.0	0	0.00	6.7	60,278	3,936	131	15'0"	0	18,285		0.01
12	0.0	65	0.00	6.4	43,830	5,253	128	15'0"	0	24,322		0.00
13	0.0	680	0.00	16.2	41,160	2,608	141	14'8"	0	18,500		0.10
14	0.0	800	0.00	12.1	51,174	2,674	142	15'2"	0	24,150		0.00
15	0.0	630	0.00	11.1	47,760	2,705	137	15'2"	18,476	18,115		0.00
16	0.0	0	0.00	12.7	44,512	2,648	122	14'2"	36,240	24,214		0.30

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) September, 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	335	0.00	11.6	41,780	2,547	116	13'4"	0	0		0.00
18	0.0	0	0.00	11.9	44,748	2,554	117	13'5"	41,237	18,100		0.00
19	0.0	155	0.00	10.5	44,384	0	91	12'0"	49,294	18,079		1.00
20	0.0	50	0.00	12.1	43,948	2,705	97	10'8"	14,046	18,062		1.00
21	0.0	0	0.00	11.4	42,126	5,135	94	10'9"	0	24,078		0.00
22	0.0	0	0.00	10.6	44,080	3,013	92	10'8"	0	18,058		0.00
23	0.0	140	0.00	9.6	41,308	0	104	10'8"	0	24,073		0.00
24	0.0	140	0.00	11.0	42,979	0	94	10'9"	0	0		0.00
25	0.0	0	0.00	12.4	45,154	0	97	11'5"	28,054	12,046		0.00
26	0.0	0	0.00	9.1	42,218	0	93	10'3"	51,123	0		0.00
27	0.0	1,870	0.00	9.9	46,293	0	97	9'4"	51,096	0		0.00
28	0.0	0	0.00	8.3	45,984	0	11	8'1"	51,103	13,041		0.00
29	0.0	710	0.00	11.9	41,169	0	19	6'6"	43,808	13,050		0.00
30	0.0	900	0.00	9.3	44,558	0	5	5'10"	29,263	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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EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year)

September, 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	2.60	2.70	0	44,460	0		16,487	12,018				
2	2.70	2.70	0	42,104	0		27,492	24,056				
3	2.60	2.70	0	24,091	0		0	0				
4	3.10	2.80	0	22,680	0		0	0				
5	3.50	2.80	0	23,206	0		27,511	12,541				
6	3.40	3.00	0	29,592	0		16,517	19,486				
7	3.10	3.00	0	32,042	0		27,513	26,056				
8	2.80	2.90	0	37,089	0		74,587	6,506				
9	2.00	2.90	0	36,711	0		22,036	0				
10	2.60	2.90	0	37,965	0		0	0				
11	3.20	3.00	0	31,441	0		27,559	0				
12	3.20	3.00	0	29,891	0		33,073	0				
13	3.20	3.00	0	29,100	0		12,029	0				
14	3.40	3.00	0	28,158	0		36,065	0				
15	3.30	3.00	0	30,958	34,960		12,009	0			N	
16	3.00	3.00	0	27,820	40,623		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. Fraw

EFFLUENT DEPTH/QUANTITIES DATA FORM
SOUTHEAST COUNTY LANDFILL

(Month/Year) September, 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	2.80	3.00	0	29,985	0		0	0				
18	3.30	3.00	0	28,748	44,420		0	0			N	
19	3.00	3.00	0	29,305	36,797		0	0			N	
20	3.00	3.00	0	28,537	0		27,916	0				
21	2.80	3.00	0	28,718	0		42,073	0				
22	2.50	3.00	0	29,709	0		42,074	0				
23	2.20	3.00	0	28,032	0		42,064	0				
24	2.10	3.00	0	30,358	0		0	0				
25	2.50	3.00	0	30,588	43,332		21,044	0			N	
26	3.20	2.50	0	28,687	21,448		0	0			N	
27	3.40	2.50	0	27,501	45,505		0	0			N	
28	3.00	2.50	0	27,091	42,754		0	0			N	
29	2.80	2.40	0	29,713	40,800		0	0			N	
30	2.70	2.30	0	29,315	0		29,263	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 J. Jones