

Hillsborough County
Florida

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Dept. of Environmental
Protection

July 13, 2006

JUL 14 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 – 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 July 15, 2006.

The data is being submitted as separate monthly reports for ^{April, May, June} ~~January, February and March~~ 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 May 22 and June 13 and 14, 2006, due to pump malfunctions. These malfunctions were immediately corrected.

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

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

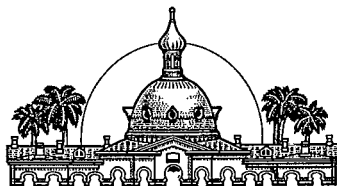
Sincerely,

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

Attachment

xc: Larry Ruiz, SWMD
Walter Gray, SWMD
Rich Siemering, JEA

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May 15, 2006

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

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

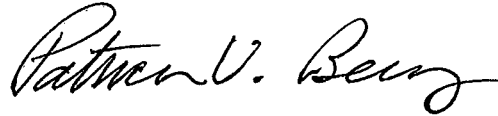
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-006-SO,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

As initiated with the April 1996 report, the Landfill leachate information for April 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 April 2006 was 17.2 inches.

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

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

Sincerely,

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

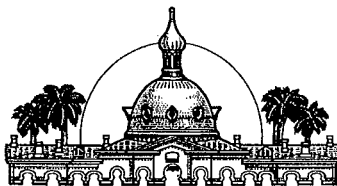
Patricia V. Berry
Landfill Services Section Manager
Solid Waste Management Department

Attachments

glfs/lea0406.dep

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M E M O R A N D U M

DATE: May 9, 2006

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

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

SUBJECT: Leachate Water Balance Report Forms for April 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 Section 7 of the Capacity Expansion for April 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 0.17 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

May 9, 2006

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. On April 18, Pond A was emptied and water pressure cleaned. This month the average depth of effluent stored in Pond A was 2.5 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 2.4 feet.

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

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches. The average depth of leachate in the PS-B sump was 17.2 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 has been declining and it appears that the overall leachate removal is not being impacted by TPS-6. Therefore, on April 24 the SWMD began a 30 days test by turning off TPS-6. During this time, the SWMD will evaluate if TPS-6 is removing any additional leachate from the SCLF. The average daily amount of leachate pumped from TPS-6 was 389 gallons. A total of 11,660 gallons was pumped from TPS-6 to PS-B 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

MEMORANDUM

May 9, 2006

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daily amount of leachate pumped from PS-A was 35,787 gallons. A total of 1,073,620 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 1,250 gallons per day. This month a total of 536 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 26,367 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 1,099,987 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 180,400 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,119,100 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 162,705 gallons of leachate was hauled off site.

MEMORANDUM

May 9, 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 Phases I-VI. This month a total of 20,042 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 91,600 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 117,600 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 857,079 gallons of effluent was used as spray irrigation.

MEMORANDUM

May 9, 2006

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Effluent Dust Control (Sprayed) (Column XIX)

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

Total Effluent Hauled (Column XX)

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

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 701,700 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 1,099,987 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,301,847 gallons. The change in storage for the month of April decreased by 201,860 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
APRIL 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	3.2	1.8	16.2	390	35,343	46	3,033	38,376	266,000	47,700	18,075	8,671	118,000	64,000	0	65,221	0	0	59,100
2	0.00	3.6	1.8	16.3	570	34,992	14	0	34,992	240,000	43,800	0	0	145,000	64,000	0	0	0	0	0
3	0.00	3.5	1.8	17.0	10	39,145	0	0	39,145	230,000	50,400	12,045	8,888	140,000	64,000	0	44,780	0	0	42,900
4	0.00	3.4	1.8	16.7	705	39,713	63	2,915	42,628	218,000	40,900	12,039	0	129,000	64,000	0	32,705	0	0	26,200
5	0.00	3.4	1.8	16.8	745	38,205	9	0	38,205	209,000	37,400	12,039	0	129,000	64,000	0	0	0	0	0
6	0.00	3.3	1.8	16.7	820	39,093	9	0	39,093	202,000	36,300	12,035	0	123,000	64,000	0	31,442	0	0	25,200
7	0.00	3.3	1.8	17.1	760	39,115	52	3,005	42,120	199,000	37,200	12,040	0	123,000	64,000	0	41,647	0	0	33,300
8	0.00	3.2	1.8	16.9	670	35,905	9	0	35,905	194,000	35,500	0	0	118,000	64,000	0	42,251	0	0	33,800
9	0.10	3.1	1.8	17.8	940	40,219	3	0	40,219	197,000	36,300	0	0	113,000	64,000	0	0	0	0	0
10	0.00	3.6	1.8	20.9	0	34,792	49	2,734	37,526	194,000	40,300	12,048	0	145,000	64,000	0	35,005	0	0	28,000
11	0.00	3.6	1.8	16.9	400	31,703	10	0	31,703	189,000	33,200	12,044	0	145,000	64,000	0	42,366	0	0	33,900
12	0.00	3.5	1.8	15.4	230	30,346	8	0	30,346	194,000	36,200	12,103	0	140,000	64,000	0	49,987	0	0	40,000
13	0.00	3.0	1.8	18.5	330	30,658	30	0	30,658	158,000	38,000	12,082	0	108,000	64,000	0	38,576	0	0	30,900
14	0.00	2.9	1.8	12.6	980	37,017	34	2,957	39,974	158,000	31,800	12,071	0	103,000	64,000	0	49,053	0	0	39,200
15	0.00	2.0	2.1	13.2	380	38,484	9	0	38,484	151,000	34,400	0	0	61,000	88,000	0	35,745	0	0	28,600
16	0.00	2.2	2.5	13.5	1,000	40,737	11	0	40,737	168,000	35,800	0	0	70,000	124,000	0	0	0	0	0
17	0.00	1.1	2.7	13.2	0	35,011	0	0	35,011	161,000	34,300	0	0	28,000	143,000	0	8,709	0	0	7,000
18	0.00	0.0	3.0	17.1	990	38,005	27	2,918	40,923	161,000	37,400	18,074	0	0	172,000	0	0	0	0	0
19	0.00	1.2	3.1	16.1	810	38,056	13	0	38,056	153,000	36,400	6,010	0	32,000	182,000	0	0	0	0	0
20	0.00	1.9	3.1	19.4	70	34,996	6	0	34,996	170,000	36,100	0	2,483	57,000	182,000	0	29,694	0	0	25,700
21	0.00	2.0	3.1	20.4	220	34,410	10	0	34,410	153,000	37,200	0	0	61,000	182,000	0	36,233	0	0	29,000
22	0.00	2.0	3.1	16.4	200	34,040	30	2,878	36,918	153,000	30,800	0	0	61,000	182,000	0	49,091	0	0	39,300
23	0.00	1.8	3.0	18.8	440	32,596	4	0	32,596	156,000	36,300	0	0	52,000	172,000	0	0	0	0	0
24	0.00	2.3	3.0	19.3	0	34,717	3	0	34,717	161,000	36,500	0	0	74,000	172,000	0	45,729	0	0	36,600
25	0.00	2.4	3.0	18.4	0	34,705	13	0	34,705	156,000	36,400	0	0	79,000	172,000	0	58,033	0	0	46,400
26	0.00	1.6	3.0	19.2	0	35,831	26	3,008	38,839	161,000	36,800	0	0	44,000	172,000	0	33,025	0	0	26,400
27	0.07	1.7	3.0	21.7	0	36,867	7	0	36,867	163,000	37,000	0	0	48,000	172,000	0	0	0	0	0
28	0.00	2.4	3.0	20.0	0	35,612	7	0	35,612	168,000	35,400	0	0	79,000	172,000	0	45,634	0	0	36,500
29	0.00	2.2	3.0	18.4	0	30,791	9	0	30,791	166,000	35,200	0	0	70,000	172,000	0	42,153	0	0	33,700
30	0.00	2.0	3.0	16.0	0	32,516	25	2,919	35,435	163,000	38,100	0	0	61,000	172,000	0	0	0	0	0
Total	0.17				11,660	1,073,620	536	26,367	1,099,987		1,119,100	162,705	20,042		91,600	117,600	0	857,079	0	701,700
Daily Average		2.5	2.4	17.2	389	35,787	18	879	36,666	180,400										
Mo. Average													700				28,600	0	0	23,390

projects\balance\2006\04-06bal.xls (Revised by ler 5/09/06)

- Notes:
- NR = No Records, NA = Not Available.
 - Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
 - Daily average is calculated by dividing the total by the actual days measured in the month.
 - Monthly average calculated by dividing the total by the number of days of the month.
 - Column II, Trace is less than 0.01 inches and is not included in total.
 - Columns III and IV, field measured at staff gauges.
 - Column V, PPS-B sensor reading plus 9 inches.
 - Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
 - Column XI, calculated from depth in 575,000 gal. leachate tank.
 - Columns VI, VII, VIII, IX, XII, XIII, XIV, XVIII, and XIX, quantities from flow meters.
 - 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
APRIL 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 Contractor (gal.)	Leachate Hauled 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.)	Effluent Hauled County (gal.)	Effluent Dust Control (Sprayed) (gal.)
1	7.2	152,196	2,291,752	5,717,130	3,302,989	9.25	0	18,075	8,671	0.00	3.2	1.8	0	47,714	65,221	0	0	0
2	7.3	152,210	2,291,752	5,717,700	3,337,981	8.33	0	0	0	0.00	3.6	1.8	0	43,750	0	0	0	0
3	8.0	152,210	2,291,752	5,717,710	3,377,126	8.00	0	12,045	8,888	0.00	3.5	1.8	0	50,374	44,780	0	0	0
4	7.7	152,273	2,294,667	5,718,415	3,416,839	7.58	0	12,039	0	0.00	3.4	1.8	0	40,872	32,705	0	0	0
5	7.8	152,282	2,294,667	5,719,160	3,455,044	7.25	0	12,039	0	0.00	3.4	1.8	0	37,434	0	0	0	0
6	7.7	152,291	2,294,667	5,719,980	3,494,137	7.00	0	12,035	0	0.00	3.3	1.8	0	36,328	31,442	0	0	0
7	8.1	152,343	2,297,672	5,720,740	3,533,252	6.92	0	12,040	0	0.00	3.3	1.8	0	37,228	41,647	0	0	0
8	7.9	152,352	2,297,672	5,721,410	3,569,157	6.75	0	0	0	0.00	3.2	1.8	0	35,528	42,251	0	0	0
9	8.8	152,355	2,297,672	5,722,350	3,609,376	6.83	0	0	0	0.10	3.1	1.8	0	36,252	0	0	0	0
10	11.9	152,404	2,300,406	5,722,350	3,644,168	6.75	0	12,048	0	0.00	3.6	1.8	0	40,254	35,005	0	0	0
11	7.9	152,414	2,300,406	5,722,750	3,675,871	6.58	0	12,044	0	0.00	3.6	1.8	0	33,236	42,366	0	0	0
12	6.4	152,422	2,300,406	5,722,980	3,706,217	6.75	0	12,103	0	0.00	3.5	1.8	0	36,229	49,987	0	0	0
13	9.5	152,452	2,300,406	5,723,310	3,736,875	5.50	0	12,082	0	0.00	3.0	1.8	0	38,007	38,576	0	0	0
14	3.6	152,486	2,303,363	5,724,290	3,773,892	5.50	0	12,071	0	0.00	2.9	1.8	0	31,814	49,053	0	0	0
15	4.2	152,495	2,303,363	5,724,670	3,812,376	5.25	0	0	0	0.00	2.0	2.1	0	34,414	35,745	0	0	0
16	4.5	152,506	2,303,363	5,725,670	3,853,113	5.83	0	0	0	0.00	2.2	2.5	0	35,780	0	0	0	0
17	4.2	152,506	2,303,363	5,725,670	3,888,124	5.58	0	0	0	0.00	1.1	2.7	0	34,318	8,709	0	0	0
18	8.1	152,533	2,306,281	5,726,660	3,926,129	5.58	0	18,074	0	0.00	0.0	3.0	0	37,372	0	0	0	0
19	7.1	152,546	2,306,281	5,727,470	3,964,185	5.33	0	6,010	0	0.00	1.2	3.1	0	36,378	0	0	0	0
20	10.4	152,552	2,306,281	5,727,540	3,999,181	5.92	0	0	2,483	0.00	1.9	3.1	0	36,088	29,694	0	0	0
21	11.4	152,562	2,306,281	5,727,760	4,033,591	5.33	0	0	0	0.00	2.0	3.1	0	37,182	36,233	0	0	0
22	7.4	152,592	2,309,159	5,727,960	4,067,631	5.33	0	0	0	0.00	2.0	3.1	0	30,782	49,091	0	0	0
23	9.8	152,596	2,309,159	5,728,400	4,100,227	5.42	0	0	0	0.00	1.8	3.0	0	36,316	0	0	0	0
24	10.3	152,599	2,309,159	5,728,400	4,134,944	5.58	0	0	0	0.00	2.3	3.0	0	36,536	45,729	0	0	0
25	9.4	152,612	2,309,159	5,728,400	4,169,649	5.42	0	0	0	0.00	2.4	3.0	0	36,420	58,033	0	0	0
26	10.2	152,638	2,312,167	5,728,400	4,205,480	5.58	0	0	0	0.00	1.6	3.0	0	36,800	33,025	0	0	0
27	12.7	152,645	2,312,167	5,728,400	4,242,347	5.67	0	0	0	0.07	1.7	3.0	0	37,010	0	0	0	0
28	11.0	152,652	2,312,167	5,728,400	4,277,959	5.83	0	0	0	0.00	2.4	3.0	0	35,356	45,634	0	0	0
29	9.4	152,661	2,312,167	5,728,400	4,308,750	5.75	0	0	0	0.00	2.2	3.0	0	35,196	42,153	0	0	0
30	7.0	152,686	2,315,086	5,728,400	4,341,266	5.67	0	0	0	0.00	2.0	3.0	0	38,112	0	0	0	0

projects\balance\2006\04-06bal.xls (Revised by ler 5/09/06)

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

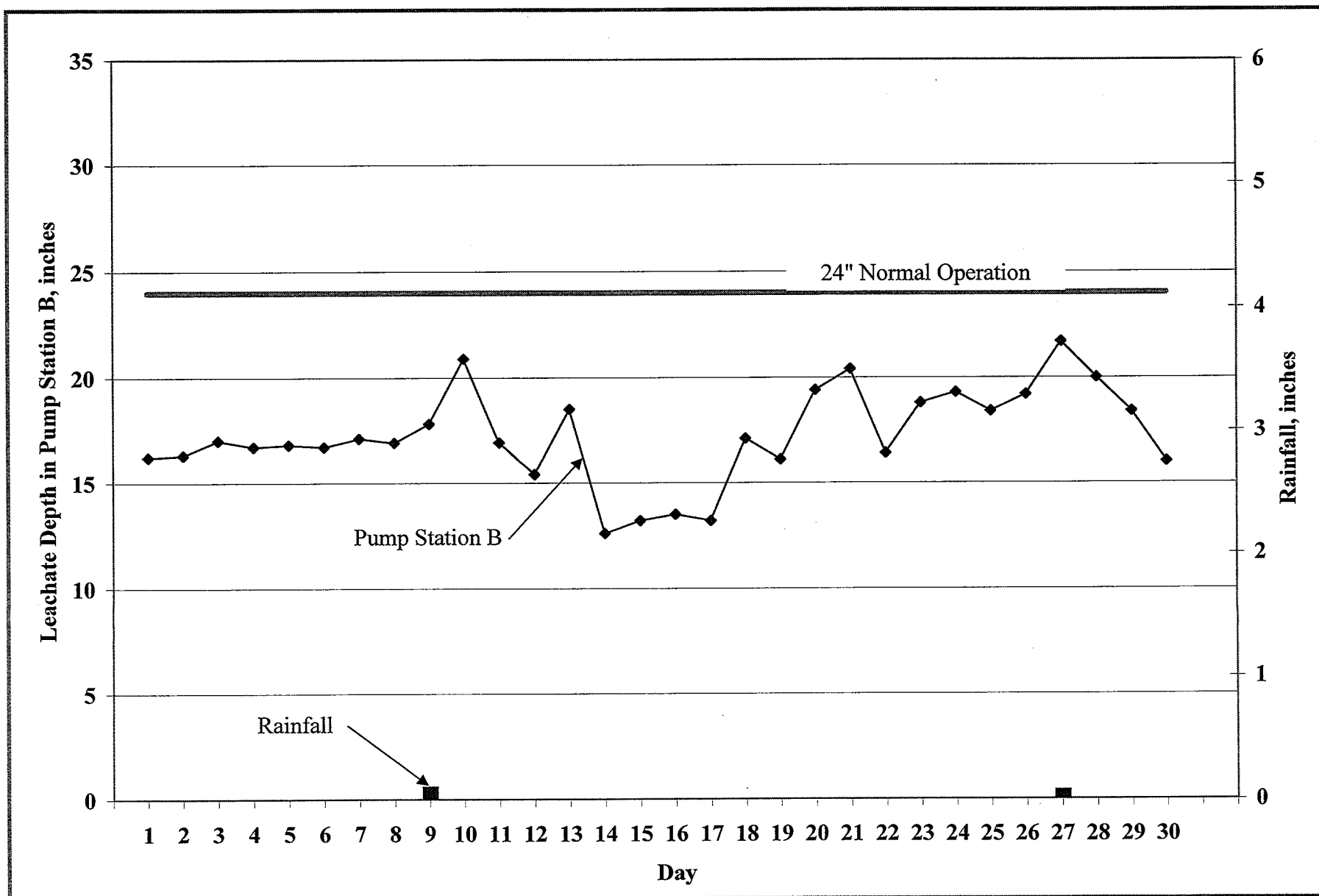


Figure 1. Leachate Levels in Pump Station B and Rainfall for April 2006.

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

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.10	0	58,666	1,146,298	235,508	160,066	1,034,200	0	0	985,357	1,204,964	1,429,774	-224,810
April	0.17	0	26,367	1,073,620	162,705	20,042	1,119,100	0	0	857,079	1,099,987	1,301,847	-201,860
May	0.00	0	0	0	0	0	0	0	0	0	0	0	0
June	0.00	0	0	0	0	0	0	0	0	0	0	0	0
July	0.00	0	0	0	0	0	0	0	0	0	0	0	0
August	0.00	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	4.59	0	243,662	4,430,328	825,684	267,627	4,385,000	72,591	0	3,702,105	4,673,990	5,478,311	-804,321

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Note:

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

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

(Month/Year) April, 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	390	0.00	7.2	35,343	3,033	46	9'3"	0	18,075	8,671	0.00
2	0.0	570	0.00	7.3	34,992	0	14	8'4"	0	0	0	0.00
3	0.0	10	0.00	8.0	39,145	0	0	8'0"	0	12,045	8,888	0.00
4	0.0	705	0.00	7.7	39,713	2,915	63	7'7"	0	12,039	0	0.00
5	0.0	745	0.00	7.8	38,205	0	9	7'3"	0	12,039	0	0.00
6	0.0	820	0.00	7.7	39,093	0	9	7'0"	0	12,035	0	0.00
7	0.0	760	0.00	8.1	39,115	3,005	52	6'11"	0	12,040	0	0.00
8	0.0	670	0.00	7.9	35,905	0	9	6'9"	0	0	0	0.00
9	0.0	940	0.00	8.8	40,219	0	3	6'10"	0	0	0	0.10
10	0.0	0	0.00	11.9	34,792	2,733	49	6'9"	0	12,048	0	0.00
11	0.0	400	0.00	7.9	31,703	0	10	6'7"	0	12,044	0	0.00
12	0.0	230	0.00	6.4	30,346	0	8	6'9"	0	12,103	0	0.00
13	0.0	330	0.00	9.5	30,658	0	30	5'6"	0	12,082	0	0.00
14	0.0	980	0.00	3.6	37,017	2,957	34	5'6"	0	12,071	0	0.00
15	0.0	380	0.00	4.2	38,484	0	9	5'3"	0	0	0	0.00
16	0.0	1,000	0.00	4.5	40,737	0	11	5'10"	0	0	0	0.00

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

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

Comments: _____

Prepared by: Raymond C. Jones

Revised Jan. 16, 2004

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

(Month/Year) April, 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	4.2	35,011	0	0	5'7"	0	0	0	0.00
18	0.0	990	0.00	8.1	38,005	2,918	27	5'7"	0	18,074	0	0.00
19	0.0	810	0.00	7.1	38,056	0	13	5'4"	0	6,010	0	0.00
20	0.0	70	0.00	10.4	34,996	0	6	5'11"	0	0	2,483	0.00
21	0.0	220	0.00	11.4	34,410	0	10	5'4"	0	0	0	0.00
22	0.0	200	0.00	7.4	34,040	2,878	30	5'4"	0	0	0	0.00
23	0.0	440	0.00	9.8	32,595	0	4	5'5"	0	0	0	0.00
24	0.0	*0	0.00	10.3	34,717	0	3	5'7"	0	0	0	0.00
25	0.0	0	0.00	9.4	34,705	0	13	5'5"	0	0	0	0.00
26	0.0	0	0.00	10.2	35,831	3,008	26	5'7"	0	0	0	0.00
27	0.0	0	0.00	12.7	36,867	0	7	5'8"	0	0	0	0.07
28	0.0	0	0.00	11.0	35,612	0	7	5'10"	0	0	0	0.00
29	0.0	0	0.00	9.4	30,791	0	9	5'9'	0	0	0	0.00
30	0.0	0	0.00	7.0	32,516	2,919	25	5'8"	0	0	0	0.00

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

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

Comments: *TPS-6, Shut off to check total removal.

Prepared by:

Raymond C. Farrow

Revised Jan. 16, 2004

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

(Month/Year)

April, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent					Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)	
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)			Effluent Stored (gallons)
							Contractor (gallons)	County (gallons)				
1	3.20	1.80	0	47,714	65,221		0	0			N	
2	3.60	1.80	0	43,750	0		0	0				
3	3.50	1.80	0	50,374	44,780		0	0			N	
4	3.40	1.80	0	40,872	32,705		0	0			N	
5	3.40	1.80	0	37,434	0		0	0				
6	3.30	1.80	0	36,328	31,442		0	0			N	
7	3.30	1.80	0	37,228	41,647		0	0			N	
8	3.20	1.80	0	35,528	37,824		0	0			N	
9	3.10	1.80	0	36,252	0		0	0				
10	3.60	1.80	0	40,254	35,005		0	0			N	
11	3.60	1.80	0	33,236	42,366		0	0				
12	3.50	1.80	0	36,229	49,987		0	0			N	
13	3.00	1.80	0	38,007	38,576		0	0			N	
14	2.90	1.80	0	31,814	49,053		0	0			N	
15	2.00	2.10	0	34,414	35,745		0	0			N	
16	1.20	2.50	0	35,780	0		0	0				

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

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

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

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

Comments:

Prepared by:

Raymond C. Jones

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

(Month/Year)

April, 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	1.10	2.70	0	34,318	8,709		0	0				N
18	*0	3.00	0	37,372	0		0	0				
19	1.20	3.10	0	36,378	0		0	0				
20	1.90	3.10	0	36,088	29,694		0	0				N
21	2.00	3.10	0	37,182	36,233		0	0				N
22	2.00	3.10	0	30,782	49,091		0	0				N
23	1.80	3.00	0	36,316	0		0	0				
24	2.30	3.00	0	36,536	45,729		0	0				N
25	2.40	3.00	0	36,420	58,033		0	0				N
26	1.60	3.00	0	36,800	33,025		0	0				N
27	1.70	3.00	0	37,010	0		0	0				
28	2.40	3.00	0	35,356	45,634		0	0				N
29	2.20	3.00	0	35,196	42,153		0	0				N
30	2.00	3.00	0	38,112	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.

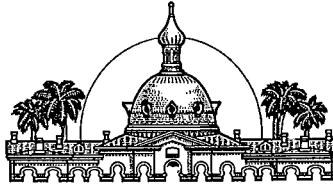
(3) If rate is higher than 1,500 gallons per day, contact Supervisor immediately.

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

Comments: *Pond A empty for cleaning.

Prepared by:

Raymond C. Jones



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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June 23, 2006

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUL 14 2006
SOUTHWEST DISTRICT
TAMPA

RE: Southeast County Landfill -May 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 May 2006. In addition, the SWMD is providing the May 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 May 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 May 22 due to pump malfunction. The average depth of leachate in the PS-B sump for the recorded days in May 2006 was 17.6 inches.

Ms. Susan J. Pelz
June 23, 2006
Page Two

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

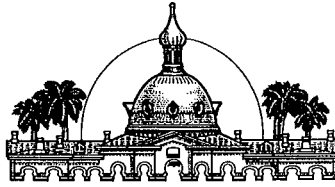
Sincerely,

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/lea0506.dep



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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MEMORANDUM

DATE: June 20, 2006

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

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

SUBJECT: Leachate Water Balance Report Forms for May 2006 *fer*
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 May 2006. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2006 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in the Pump Station B sump and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 1.22 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

June 20, 2006

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 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 2.6 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 May 22 due to pump malfunction. The average depth of leachate in the PS-B sump was 17.6 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 has been declining and it appears that the overall leachate removal is not being impacted by TPS-6. Therefore, on April 24 the SWMD began a 30 days test by turning off TPS-6. The data collected will be used to evaluate if TPS-6 is removing any additional leachate from the SCLF. This month leachate was not pumped from TPS-6.

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

MEMORANDUM

June 20, 2006

Page 3 of 5

daily amount of leachate pumped from PS-A was 34,104 gallons. A total of 1,057,227 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 1,250 gallons per day. This month a total of 431 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 38,814 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 1,096,041 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 189,800 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,186,800 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 30,067 gallons of leachate was hauled off site.

MEMORANDUM

June 20, 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 101,900 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 132,000 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 1,132,512 gallons of effluent was used as spray irrigation.

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MEMORANDUM

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Effluent Dust Control (Sprayed) (Column XIX)

Southwest District

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

Total Effluent Hauled (Column XX)

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

Total Evaporation (Column XXI)

Column XXI presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or require treatment. The landfill evaporation rate includes 80 percent of the daily values from Columns XIV, XVIII, and XIX plus 5 percent of the daily values from Column XVII. Evaporation rates of 80 percent (based on the HELP model water balance analysis for the site) and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 905,900 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 1,096,041 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,216,867 gallons. The change in storage for the month of May decreased by 120,826 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
MAY 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	2.7	3.0	16.7	0	30,928	0	0	30,928	163,000	34,700	0	0	93,000	172,000	0	42,458	0	0	34,000
2	0.00	3.1	2.8	15.2	0	33,062	12	0	33,062	158,000	36,700	0	0	113,000	152,000	0	33,290	0	0	26,600
3	0.00	2.7	2.8	17.4	0	32,788	19	2,786	35,574	166,000	35,700	0	0	93,000	152,000	0	49,098	0	0	39,300
4	0.00	2.5	2.6	21.6	0	41,689	16	0	41,689	173,000	44,200	0	0	83,000	133,000	0	44,013	0	0	35,200
5	0.00	2.3	2.6	21.8	0	35,732	5	0	35,732	178,000	35,300	0	0	74,000	133,000	0	48,363	0	0	38,700
6	0.00	2.1	2.5	16.6	0	37,725	6	0	37,725	178,000	36,400	0	0	65,000	124,000	0	24,794	0	0	19,800
7	0.00	2.4	2.5	19.8	0	36,620	16	2,868	39,488	182,000	35,900	0	0	79,000	124,000	0	0	0	0	0
8	0.00	3.0	2.5	21.3	0	34,075	6	0	34,075	182,000	37,300	0	0	108,000	124,000	0	40,807	0	0	32,600
9	0.52	2.8	2.5	19.7	0	35,756	4	0	35,756	185,000	36,600	0	0	98,000	124,000	0	0	0	0	0
10	0.00	3.5	2.5	18.6	0	36,183	18	3,246	39,429	192,000	36,900	6,012	0	140,000	124,000	0	42,247	0	0	33,800
11	0.00	3.3	2.5	19.1	0	35,865	20	3,197	39,062	189,000	34,200	0	0	123,000	124,000	0	37,345	0	0	29,900
12	0.00	3.3	2.5	15.9	0	36,537	15	2,817	39,354	197,000	36,500	0	0	123,000	124,000	0	48,083	0	0	38,500
13	0.00	3.2	2.5	16.3	0	34,422	4	0	34,422	197,000	44,100	0	0	118,000	124,000	0	50,041	0	0	40,000
14	0.00	3.3	2.5	17.6	0	32,749	8	0	32,749	192,000	35,700	0	0	123,000	124,000	0	0	0	0	0
15	0.00	3.5	2.5	17.1	0	31,697	12	2,900	34,597	192,000	36,800	0	0	140,000	124,000	0	49,279	0	0	39,400
16	0.70	3.2	2.5	19.9	0	34,824	4	0	34,824	192,000	36,800	0	0	118,000	124,000	0	0	0	0	0
17	0.00	3.6	2.8	17.9	0	37,619	19	6,291	43,910	209,000	54,300	0	0	145,000	152,000	0	55,500	0	0	44,400
18	0.00	3.1	2.8	18.9	0	35,259	17	3,035	38,294	211,000	35,100	0	0	113,000	152,000	0	43,884	0	0	35,100
19	0.00	2.9	2.8	21.1	0	32,210	7	0	32,210	211,000	35,000	0	0	103,000	152,000	0	46,614	0	0	37,300
20	0.00	2.7	2.8	16.1	0	31,092	27	3,022	34,114	211,000	34,700	0	0	93,000	152,000	0	38,804	0	0	31,000
21	0.00	2.6	2.8	22.0	0	30,921	6	0	30,921	206,000	36,700	0	0	88,000	152,000	0	0	0	0	0
22	0.00	3.2	2.8	32.9	0	13,537	11	0	13,537	185,000	36,900	0	0	118,000	152,000	0	48,937	0	0	39,100
23	0.00	2.9	2.8	13.4	0	48,324	24	3,012	51,336	206,000	36,000	0	0	103,000	152,000	0	49,147	0	0	39,300
24	0.00	2.6	2.8	12.9	0	32,388	10	0	32,388	209,000	34,200	0	0	88,000	152,000	0	48,164	0	0	38,500
25	0.00	2.5	2.8	12.8	0	34,171	4	0	34,171	206,000	37,000	6,012	0	83,000	152,000	0	48,566	0	0	38,900
26	0.00	2.5	2.5	13.7	0	34,338	11	0	34,338	209,000	35,800	18,043	0	83,000	124,000	0	46,732	0	0	37,400
27	0.00	2.6	2.3	12.8	0	33,622	0	2,929	36,551	185,000	71,600	0	0	88,000	106,000	0	52,667	0	0	42,100
28	0.00	2.3	2.3	13.1	0	33,285	0	0	33,285	182,000	36,100	0	0	74,000	106,000	0	0	0	0	0
29	0.00	2.9	2.3	14.7	0	32,719	0	0	32,719	180,000	37,100	0	0	103,000	106,000	0	47,099	0	0	37,700
30	0.00	2.8	2.1	14.7	0	32,507	130	2,711	35,218	178,000	36,100	0	0	98,000	88,000	0	46,245	0	0	37,000
31	0.00	2.6	2.1	12.8	0	34,583	0	0	34,583	180,000	36,400	0	0	88,000	88,000	0	50,335	0	0	40,300
Total	1.22				0	1,057,227	431	38,814	1,096,041		1,186,800	30,067	0				1,132,512	0	0	905,900
Daily Average		2.9	2.6	17.6	0	34,104	14	1,252	35,356	189,800				101,900	132,000	0				
Mo. Average													0				36,500	0	0	29,220

projects/balance/2006/05-06bal.xls (Revised by ler 6/20/06)

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
MAY 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	7.7	152,687	2,315,086	5,728,400	4,372,194	5.67	0	0	0	0.00	2.7	3.0	0.0	34,679	42,458	0	0	0
2	6.2	152,699	2,315,086	5,728,400	4,405,256	5.50	0	0	0	0.00	3.1	2.8	0.0	36,655	33,290	0	0	0
3	8.4	152,718	2,317,872	5,728,400	4,438,044	5.75	0	0	0	0.00	2.7	2.8	0.0	35,734	49,098	0	0	0
4	12.6	152,734	2,317,872	5,728,400	4,479,733	6.00	0	0	0	0.00	2.5	2.6	0.0	44,213	44,013	0	0	0
5	12.8	152,739	2,317,872	5,728,400	4,515,465	6.17	0	0	0	0.00	2.3	2.6	0.0	35,270	48,363	0	0	0
6	7.6	152,745	2,317,872	5,728,400	4,553,190	6.17	0	0	0	0.00	2.1	2.5	0.0	36,354	24,794	0	0	0
7	10.8	152,761	2,320,740	5,728,400	4,589,810	6.33	0	0	0	0.00	2.4	2.5	0.0	35,888	0	0	0	0
8	12.3	152,767	2,320,740	5,728,400	4,623,885	6.33	0	0	0	0.00	3.0	2.5	0.0	37,252	40,807	0	0	0
9	10.7	152,771	2,320,740	5,728,400	4,659,641	6.42	0	0	0	0.52	2.8	2.5	0.0	36,569	0	0	0	0
10	9.6	152,789	2,323,986	5,728,400	4,695,824	6.67	0	6,012	0	0.00	3.5	2.5	0.0	36,882	42,247	0	0	0
11	10.1	152,809	2,327,183	5,728,400	4,731,689	6.58	0	0	0	0.00	3.3	2.5	0.0	34,184	37,345	0	0	0
12	6.9	152,824	2,330,000	5,728,400	4,768,226	6.83	0	0	0	0.00	3.3	2.5	0.0	36,478	48,083	0	0	0
13	7.3	152,828	2,330,000	5,728,400	4,802,648	6.83	0	0	0	0.00	3.2	2.5	0.0	44,140	50,041	0	0	0
14	8.6	152,836	2,330,000	5,728,400	4,835,397	6.67	0	0	0	0.00	3.3	2.5	0.0	35,684	0	0	0	0
15	8.1	152,848	2,332,900	5,728,400	4,867,094	6.67	0	0	0	0.00	3.5	2.5	0.0	36,823	49,279	0	0	0
16	10.9	152,852	2,332,900	5,728,400	4,901,918	6.67	0	0	0	0.70	3.2	2.5	0.0	36,840	0	0	0	0
17	8.9	152,871	2,339,191	5,728,400	4,939,537	7.25	0	0	0	0.00	3.6	2.8	0.0	54,256	55,500	0	0	0
18	9.9	152,888	2,342,226	5,728,400	4,974,796	7.33	0	0	0	0.00	3.1	2.8	0.0	35,144	43,884	0	0	0
19	12.1	152,895	2,342,226	5,728,400	5,007,006	7.33	0	0	0	0.00	2.9	2.8	0.0	34,990	46,614	0	0	0
20	7.1	152,922	2,345,248	5,728,400	5,038,098	7.33	0	0	0	0.00	2.7	2.8	0.0	34,675	38,804	0	0	0
21	13.0	152,928	2,345,248	5,728,400	5,069,019	7.17	0	0	0	0.00	2.6	2.8	0.0	36,699	0	0	0	0
22	23.9	152,939	2,345,248	5,728,400	5,082,556	6.42	0	0	0	0.00	3.2	2.8	0.0	36,910	48,937	0	0	0
23	4.4	152,963	2,348,260	5,728,400	5,130,880	7.17	0	0	0	0.00	2.9	2.8	0.0	35,992	49,147	0	0	0
24	3.9	152,973	2,348,260	5,728,400	5,163,268	7.25	0	0	0	0.00	2.6	2.8	0.0	34,216	48,164	0	0	0
25	3.8	152,977	2,348,260	5,728,400	5,197,439	7.17	0	6,012	0	0.00	2.5	2.8	0.0	36,955	48,566	0	0	0
26	4.7	152,988	2,348,260	5,728,400	5,231,777	7.25	0	18,043	0	0.00	2.5	2.5	0.0	35,784	46,732	0	0	0
27	3.8	152,988	2,351,189	5,728,400	5,265,399	6.42	0	0	0	0.00	2.6	2.3	0.0	71,556	52,667	0	0	0
28	4.1	152,988	2,351,189	5,728,400	5,298,684	6.33	0	0	0	0.00	2.3	2.3	0.0	36,128	0	0	0	0
29	5.7	152,988	2,351,189	5,728,400	5,331,403	6.25	0	0	0	0.00	2.9	2.3	0.0	37,085	47,099	0	0	0
30	5.7	153,118	2,353,900	5,728,400	5,363,910	6.17	0	0	0	0.00	2.8	2.1	0.0	36,139	46,245	0	0	0
31	3.8	153,118	2,353,900	5,728,400	5,398,493	6.25	0	0	0	0.00	2.6	2.1	0.0	36,402	50,335	0	0	0

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Notes:

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

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

**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	0.00	0	0	0	0	0	0	0	0	0	0	0	0
July	0.00	0	0	0	0	0	0	0	0	0	0	0	0
August	0.00	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	5.81	0	282,476	5,487,555	855,751	267,627	5,571,800	72,591	0	4,834,617	5,770,031	6,695,178	-925,147

projects\balance\2006\2006-summary.xls (Revised by ler 6/20/06)

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.

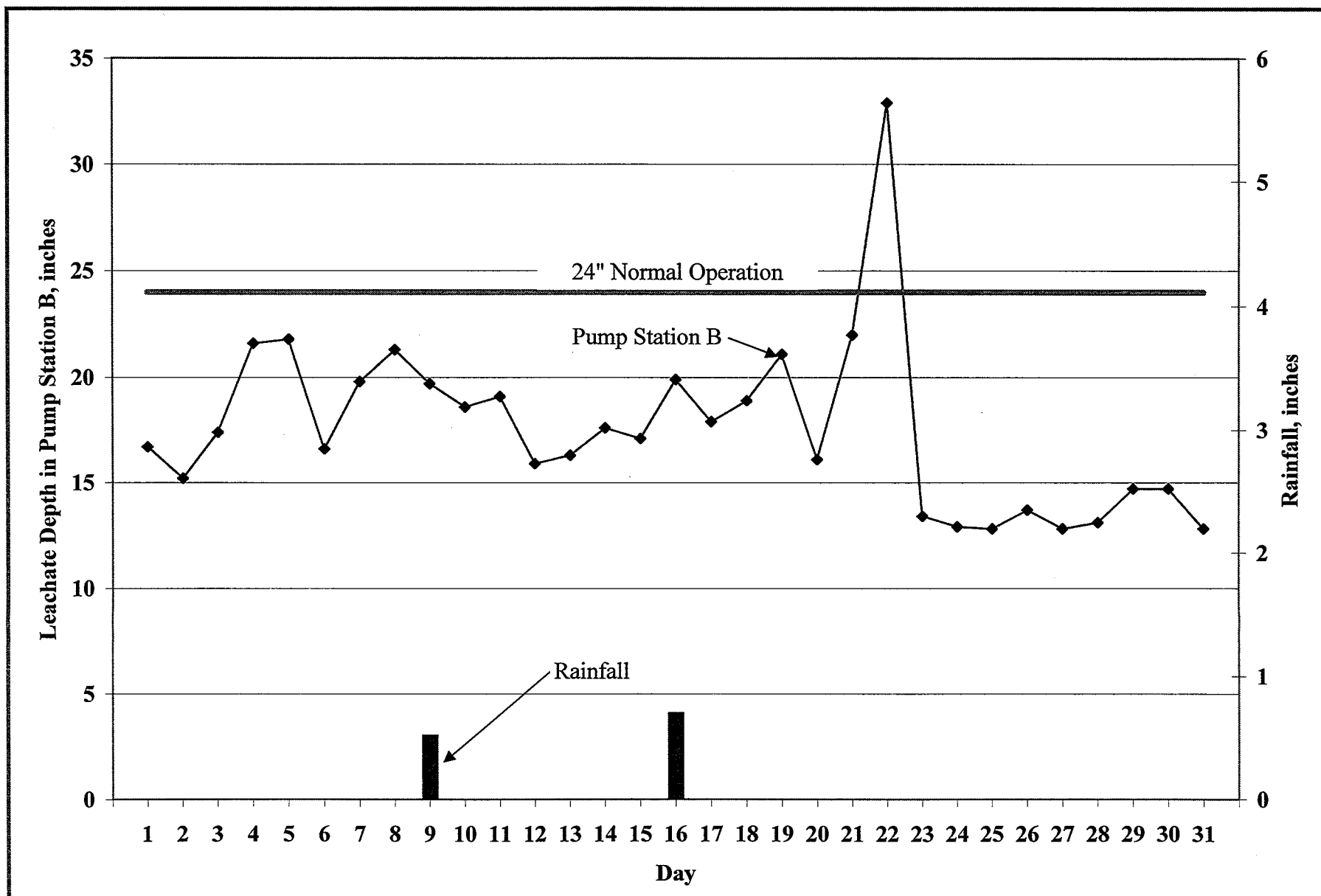


Figure 1. Leachate Levels in Pump Station B and Rainfall for May 2006.

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

(Month/Year) May, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	0	0.00	7.7	30,928	0	0	5'8"	0	0	0	0.00
2	0.0	0	0.00	6.2	33,062	0	12	5'6"	0	0	0	0.00
3	0.0	0	0.00	8.4	32,788	2,786	19	5'9"	0	0	0	0.00
4	0.0	0	0.00	12.6	41,689	0	16	6'0"	0	0	0	0.00
5	0.0	0	0.00	12.8	35,732	0	5	6'2"	0	0	0	0.00
6	0.0	0	0.00	7.6	37,725	0	6	6'2"	0	0	0	0.00
7	0.0	0	0.00	10.8	36,620	2,860	16	6'4"	0	0	0	0.00
8	0.0	0	0.00	12.3	34,075	0	6	6'4"	0	0	0	0.00
9	0.0	0	0.00	10.7	35,756	0	4	6'5"	0	0	0	0.52
10	0.0	0	0.00	9.6	36,183	3,246	18	6'8"	0	6,012	0	0.00
11	0.0	0	0.00	10.1	35,865	3,197	23	6'7"	0	0	0	0.00
12	0.0	0	0.00	6.9	36,537	2,817	15	6'10"	0	0	0	0.00
13	0.0	0	0.00	7.3	34,442	0	4	6'10"	0	0	0	0.00
14	0.0	0	0.00	8.6	32,749	0	8	6'8"	0	0	0	0.00
15	0.0	0	0.00	8.1	31,697	2,900	12	6'8"	0	0	0	0.00
16	0.0	0	0.00	10.9	34,824	0	4	6'8"	0	0	0	0.70

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. Stover

Revised Jan. 16, 2004

09200020.24\Leachate Balance\LeachateData_LeachateData_MAY,2006.xls

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

(Month/Year) May, 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	37,619	6,291	19	7'3"	0	0	0	0.00
18	0.0	0	0.00	9.9	35,259	3,035	17	7'4"	0	0	0	0.00
19	0.0	0	0.00	12.1	32,210	0	7	7'4"	0	0	0	0.00
20	0.0	0	0.00	7.1	31,092	3,022	27	7'4"	0	0	0	0.00
21	0.0	0	0.00	13.0	30,921	0	6	7'2"	0	0	0	0.00
22	0.0	0	0.00	23.9	13,537	0	19	6'5"	0	0	0	0.00
23	0.0	0	0.00	4.4	48,324	3,012	24	7'2"	0	0	0	0.00
24	0.0	0	0.00	3.9	32,388	0	10	7'3"	0	0	0	0.00
25	0.0	0	0.00	3.8	48,566	0	5	7'2"	0	6,012	0	0.00
26	0.0	0	0.00	4.7	46,732	0	11	7'3"	0	18,043	0	0.00
27	0.0	0	0.00	3.8	33,622	4,929	0	6'5"	0	0	0	0.00
28	0.0	0	0.00	4.1	33,285	0	0	6'4"	0	0	0	0.00
29	0.0	0	0.00	5.7	32,719	0	0	6'3"	0	0	0	0.00
30	0.0	0	0.00	5.7	32,507	2,711	130	6'2"	0	0	0	0.00
31	0.0	0	0.00	3.8	34,583	0	0	6'3"	0	0	0	0.00

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

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

Comments: _____

Prepared by: Raymond C. Sawa

Revised Jan. 16, 2004

09200020.24\Leachate Balance\LeachateData_LeachateData_MAY,2006.xls

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

(Month/Year)

May,2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
1	2.70	3.00	0	34,679	42,458	0	0	0				N
2	3.10	2.80	0	36,655	33,290	0	0	0				N
3	2.70	2.80	0	35,734	49,098	0	0	0				N
4	2.50	2.60	0	44,213	44,013	0	0	0				N
5	2.30	2.60	0	35,270	48,363	0	0	0				N
6	2.10	2.50	0	36,354	24,794	0	0	0				N
7	2.40	2.50	0	35,888	0	0	0	0				N
8	3.00	2.50	0	37,252	40,807	0	0	0				N
9	2.80	2.50	0	36,569	0	0	0	0				N
10	3.50	2.80	0	36,882	42,247	0	0	0				N
11	3.30	2.50	0	34,184	37,345	0	0	0				N
12	3.30	2.50	0	36,478	48,083	0	0	0				N
13	3.20	2.50	0	44,140	50,041	0	0	0				N
14	3.30	2.50	0	35,684	0	0	0	0				N
15	3.50	2.50	0	36,823	49,279	0	0	0				N
16	3.20	2.50	0	36,840	0	0	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. Davis

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

(Month/Year) May, 2006

Date	Depth in Pond A ¹ (feet)	Depth in Pond B ² (feet)	Pond B Leak Detection ³ (gallons)	Leachate Treated (gallons)	Treated Effluent						Time at End of Rainfall	Effluent ⁴ Runoff to Retention Area (Y/N)
					Spray Irrigated (gallons)	Evaporated at Pond B (gallons)	Hauled		Dust Control/ Evap. (gallons)	Effluent Stored (gallons)		
							Contractor (gallons)	County (gallons)				
17	3.60	2.80	0	54,256	55,500		0	0				N
18	3.10	2.80	0	35,144	43,884		0	0				N
19	2.90	2.80	0	34,990	46,614		0	0				N
20	2.70	2.80	0	34,675	38,804		0	0				N
21	2.60	2.80	0	36,699	0		0	0				
22	3.20	2.80	0	36,910	48,937		0	0				N
23	2.90	2.80	0	35,992	49,147		0	0				N
24	2.60	2.80	0	34,216	48,164		0	0				N
25	2.50	2.80	0	36,955	48,566		0	0				N
26	2.50	2.50	0	35,784	46,732		0	0				N
27	2.60	2.30	0	71,556	52,667		0	0				N
28	2.30	2.30	0	36,128	0		0	0				
29	2.90	2.30	0	37,085	47,099		0	0				N
30	2.90	2.30	0	36,139	46,245		0	0				N
31	2.60	2.10	0	36,402	50,335		0	0				N

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

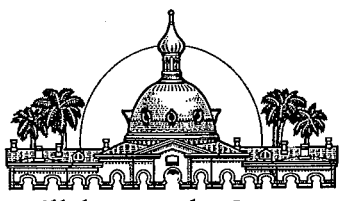
(2) If depth is 3.6 feet or greater, contact Supervisor immediately.

(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. Shaw



Hillsborough County
Florida

Office of the County Administrator
Patricia G. Bean

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July 13, 2006

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUL 14 2006
SOUTHWEST DISTRICT
TAMPA

RE: Southeast County Landfill –June 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 June 2006. In addition, the SWMD is providing the June 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 June 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 June 13 and 14 due to pump malfunction. The average depth of leachate in the PS-B sump for the recorded days in June 2006 was 14.8 inches.

Dept. of Environmental
Protection

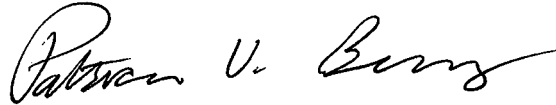
JUL 14 2006

Southwest District

Ms. Susan J. Pelz
July 13, 2006
Page Two

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Patricia V. Berry".

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

Attachments

glfs/lea0606.dep



PICKETT

SURVEYING & PHOTOGRAMMETRY

RECEIVED

JUL 13 2006

SOUTHEAST COUNTY LANDFILL

REPORT OF SURVEY

NOTE: THIS REPORT IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

PICKETT & ASSOCIATES, PROJECT NO.: 12131-1

DRAWING NO: N/A

TITLE/TYPE OF SURVEY: SPECIFIC PURPOSE SURVEY

DATE OF SURVEY: 6/01/06

SUBJECT: SOUTHEAST HILLSBOROUGH COUNTY LANDFILL SITE

CLIENT: WASTE MANAGEMENT, INC. OF FLORIDA

PIPE	NORTHING	EASTING	ELEVATION	DESCRIPTION
SW	1251010.3	596333.8	173.03	Top of 4" pipe
			172.75	Top of 1" pipe
SE	1251004.7	596339.5	173.15	Top of 4" pipe
			172.94	Top of 1" pipe
NE	1251014.2	596344.4	173.32	Top of 4" pipe
			172.87	Top of 1" pipe
NW	1251014.5	596336.5	172.71	Top of 4" pipe
			172.77	Top of 1" pipe

METHODOLOGY AND ACCURACY STATEMENT:

The top of the 4" pipe located at the northwest corner of the vault was used as a benchmark and surveyed with RTK GPS and was observed at least twice with a new initialization between each observation. Observation time at that point did not exceed 10 minutes. This point has an estimated horizontal positional accuracy of 0.08' or less and a vertical positional accuracy of 0.10' or less.

DATUM:

HORIZONTAL: North and the Coordinates are based on the West Zone of the Florida State Plane Coordinate System, NAD 83 1990 adjustment and are based upon provided control referenced to Hillsborough County Horizontal Control Monument LW-E (PID AG8960) and LW-D (PID AG8959).

VERTICAL: Elevations are to National Geodetic Vertical Datum of 1929 and are based upon provided control referenced to Hillsborough County Horizontal Control Monument LW-D (PID AG8959), elevation is 118.68' from Hillsborough County's Vertical Control Network.

Pickett & Associates, Inc. • 475 South First Avenue • Bartow, FL 33830 • 863-533-9095

BARTOW – WAUCHULA – PALM COAST

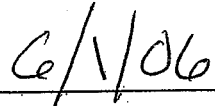
Pickett & Associates, Inc.

NOTES:

The quarterly Specific Purpose Survey was prepared to show the existing conditions of the above ground pipes coming from the vault located at the above referenced landfill.



Gregory A. Prather, P.L.S.
Florida Registration No. 5135
Pickett & Associates, Inc.
Florida Registration No. 364



Survey Date



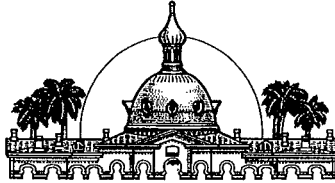
TABLE 1. APPROXIMATE TOP OF CLAY ELEVATIONS
PUMP STATION B SUMP
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

DATE	NW	NE	SE	SW
March 3, 1999	115.65	115.63	115.66	115.62
May 4, 1999	115.63	115.59	115.63	115.58
July 28, 1999	115.49	115.46	115.49	115.45
September 17, 1999 ²	115.59	115.55	115.65	115.56
November 11, 1999	115.44	115.40	115.50	115.31
January 3, 2000	115.31	115.26	115.36	115.17
March 30, 2000	115.39	115.35	115.45	115.26
July 5, 2000 ³	114.85	114.82	114.90	114.71
October 5, 2000	114.83	114.78	114.87	114.67
April 6, 2001	114.35	115.33	114.33	114.29
April 18, 2001 ²	114.15	114.59	114.17	114.07
August 8, 2001	114.34	115.31	114.32	114.28
September 19, 2001 ²	113.78	114.20	113.79	113.69
December 18, 2001	113.63	114.02	113.62	113.52
March 29, 2002	113.22	113.58	113.21	113.10
August 15, 2002 ²	112.67	113.04	112.64	112.58
February 1, 2003	112.08	112.46	112.04	111.99
May 1, 2003	111.78	112.19	111.80	111.71
September 2, 2003	111.56	111.92	111.54	111.46
December 1, 2003	111.44	111.80	111.42	111.34
April 1, 2004	111.30	111.66	111.29	111.20
July 31, 2004	111.04	111.41	111.04	110.94
December 1, 2004	111.09	111.45	111.10	111.00
March 1, 2005	111.01	111.38	111.02	110.92
June 2, 2005	110.93	111.30	110.95	110.85
October 1, 2005	110.65	111.01	110.65	110.55
February 1, 2006	110.67	111.03	110.69	110.58
June 6, 2006	110.60	110.96	110.63	110.52

leachate/calcs/ClayTop.xls; updated 7/13/06 ler

Notes:

1. Vertical Datum based on feet NGVD 1929.
2. WMI extended the rods of the settling plates.
3. Benchmarks used in March 30, 2000 survey were found to have settled; elevations shown for July 5, 2000 were tied into new benchmarks.



Hillsborough County
Florida

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Patricia G. Bean

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MEMORANDUM

DATE: July 13, 2006

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

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

SUBJECT: Leachate Water Balance Report Forms for June 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 June 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 8.33 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM

July 13, 2006

Page 2 of 5

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in the existing effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the average depth of effluent stored in Pond A was 2.8 feet.

Depth in Pond B (Column IV)

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

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

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. PS-B was below the normal operation level of 24 inches except for June 13 and 14 due to pump malfunction. The average depth of leachate in the PS-B sump was 14.8 inches.

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

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The leachate removed from TPS-6 has been declining and it appears that the overall leachate removal is not being impacted by TPS-6. Therefore, on April 24 the SWMD began a 30 days test by turning off TPS-6. On June 16, 2006, the pump was restarted. The data collected will be used to evaluate if TPS-6 is removing any additional leachate from the SCLF. The average daily amount of leachate pumped from TPS-6 was 882 gallons. A total of 26,470 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

JUL 14 2006

Southwest District

MEMORANDUM

July 13, 2006

Page 3 of 5

daily amount of leachate pumped from PS-A was 34,508 gallons. A total of 1,035,231 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 1,250 gallons per day. This month a total of 832 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 105,196 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 1,140,427 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 253,900 gallons.

Leachate Treated at LTRF (Column XII)

Column XII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,017,100 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 139,447 gallons of leachate was hauled off site.

MEMORANDUM

July 13, 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 101,800 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 68,900 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 970,248 gallons of effluent was used as spray irrigation.

MEMORANDUM

July 13, 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 84,617 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 776,200 gallons.

TABLE 2

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

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 1,140,427 gallons. Total outflow quantity from the LTRF (hauled and evaporated) was 1,156,547 gallons. The change in storage for the month of June decreased by 16,120 gallons.

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

TABLE 1. LEACHATE WATER BALANCE REPORT FORM
JUNE 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 7-8 (gal.)	Total Leachate Pumped to LTRF (gal.)	Leachate in 575K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Dust Control (Sprayed) (gal.)	Pond A Storage (gal.)	Pond B Storage (gal.)	Effluent Sprayed Pond B (gal.)	Effluent Irrigation (gal.)	Effluent Dust Control (Sprayed) (gal.)	Total Effluent Hauled (gal.)	Total Evaporation (gal.)
1	0.07	2.6	2.1	13.2	0	34,194	24	0	34,194	180,000	36,200	0	0	88,000	88,000	0	50,438	0	0	40,400
2	0.42	2.6	1.7	13.8	0	34,306	6	0	34,306	180,000	36,700	0	0	88,000	57,000	0	46,759	0	0	37,400
3	0.00	2.8	1.8	13.5	0	35,299	12	2,764	38,063	187,000	36,300	0	0	98,000	64,000	0	43,246	0	0	34,600
4	0.00	2.6	1.6	13.6	0	34,633	0	0	34,633	187,000	37,300	0	0	88,000	51,000	0	0	0	0	0
5	0.00	3.2	1.6	13.9	0	36,311	22	0	36,311	187,000	36,500	0	0	118,000	51,000	0	45,151	0	0	36,100
6	0.00	3.0	1.6	15.4	0	36,301	23	2,846	39,147	189,000	34,500	6,012	0	108,000	51,000	0	46,338	0	0	37,100
7	0.00	2.9	1.3	15.1	0	33,590	20	0	33,590	185,000	34,700	0	0	103,000	33,000	0	47,048	0	0	37,600
8	0.00	2.8	1.3	15.5	0	30,843	16	0	30,843	185,000	34,700	0	0	98,000	33,000	0	46,666	0	0	37,300
9	0.00	2.7	1.1	14.7	0	33,502	17	0	33,502	189,000	36,900	0	0	93,000	23,000	0	47,605	0	0	38,100
10	0.87	2.8	0.8	13.9	0	33,802	10	2,782	36,584	192,000	37,100	0	0	98,000	12,000	0	54,412	0	0	43,500
11	0.65	2.4	1.0	13.8	0	31,064	0	3,133	34,197	199,000	38,400	0	0	79,000	19,000	0	0	0	0	0
12	4.43	3.2	1.2	13.5	0	31,772	54	8,805	40,577	202,000	23,900	18,042	0	118,000	28,000	0	0	0	0	0
13	0.88	3.6	2.2	33.7	0	8,240	28	28,955	37,195	216,000	22,500	0	0	145,000	97,000	0	0	0	24,157	0
14	0.04	3.5	2.3	34.0	0	28,477	19	26,688	55,165	247,000	26,600	0	0	140,000	106,000	0	0	0	30,182	0
15	0.00	3.4	2.3	13.6	0	50,089	26	10,452	60,541	288,000	22,400	0	0	129,000	106,000	0	0	0	30,278	0
16	0.00	3.2	2.3	13.2	1,740	35,977	84	4,112	40,089	307,000	28,200	6,134	0	118,000	106,000	0	39,655	0	0	31,700
17	0.00	3.0	2.2	13.5	640	36,413	94	3,362	39,775	307,000	29,800	0	0	108,000	97,000	0	56,439	0	0	45,200
18	0.07	2.4	2.2	13.0	2,495	34,969	40	0	34,969	317,000	31,300	0	0	79,000	97,000	0	0	0	0	0
19	0.00	3.0	2.2	12.7	945	37,097	60	2,849	39,946	336,000	35,700	12,067	0	108,000	97,000	0	49,523	0	0	39,600
20	0.00	2.7	2.2	12.5	2,540	35,172	19	0	35,172	336,000	36,600	18,202	0	93,000	97,000	0	55,391	0	0	44,300
21	0.00	2.3	2.1	13.0	2,280	37,391	24	0	37,391	333,000	37,600	12,280	0	74,000	88,000	0	51,573	0	0	41,300
22	0.00	2.0	2.0	12.8	1,700	35,471	24	0	35,471	300,000	40,400	12,033	0	61,000	80,000	0	51,174	0	0	40,900
23	0.00	1.6	2.0	12.7	2,310	36,323	27	0	36,323	293,000	31,300	6,018	0	44,000	80,000	0	38,972	0	0	31,200
24	0.00	2.3	1.6	13.3	3,080	39,301	5	2,624	41,925	293,000	34,800	0	0	74,000	51,000	0	35,874	0	0	28,700
25	0.90	2.2	1.8	13.1	2,790	38,706	95	2,914	41,620	302,000	39,100	0	0	70,000	64,000	0	0	0	0	0
26	0.00	3.0	1.8	12.8	470	41,622	9	0	41,622	307,000	36,300	6,025	0	108,000	64,000	0	0	0	0	0
27	0.00	3.6	1.8	12.4	2,140	37,792	7	0	37,792	305,000	33,200	0	0	145,000	64,000	0	0	0	0	0
28	0.00	3.6	2.1	13.3	850	31,748	37	2,910	34,658	305,000	38,200	12,543	0	145,000	88,000	0	47,307	0	0	37,800
29	0.00	3.3	2.1	12.9	1,400	31,897	19	0	31,897	288,000	34,800	18,059	0	123,000	88,000	0	46,214	0	0	37,000
30	0.00	3.1	2.1	12.1	1,090	32,929	11	0	32,929	274,000	35,100	12,032	0	113,000	88,000	0	70,463	0	0	56,400
Total	8.33				26,470	1,035,231	832	105,196	1,140,427		1,017,100	139,447	0	101,800	68,900	0	970,248	0	84,617	776,200
Daily Average		2.8	1.8	14.8	882	34,508	28	3,507	38,014	253,900										
Mo. Average													0				32,300	0	2,800	25,870

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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, Sections 7-8 leak detection pumped into 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
JUNE 2006
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVI	XVIII	XIX
Day	Reading PS-B (in.)	Sections 7-8 Leak Det. (gal.)	Sections 7-8 Flow Meter (gal.)	Flow Meter TPS-6 (gal.)	Flow Meter Pump Sta. A (gal.)	Depth in 575K Tank (ft.)	Leachate Hauled		Leachate Dust Control (Sprayed) (gal.)	Rainfall (in.)	Depth in Pond A (ft.)	Depth in Pond B (ft.)	Effluent Sprayed (Pond B) (gal.)	Leachate Treated at LTRF (gal.)	Effluent Irrigation (gal.)	Effluent Hauled		Effluent Dust Control (Sprayed) (gal.)
							Contractor (gal.)	County (gal.)								Contractor (gal.)	County (gal.)	
1	4.2	153,143	2,353,900	5,728,400	5,432,687	6.25	0	0	0	0.07	2.6	2.1	0.0	36,191	50,438	0	0	0
2	4.8	153,149	2,353,900	5,728,400	5,466,993	6.25	0	0	0	0.42	2.6	1.7	0.0	36,713	46,759	0	0	0
3	4.5	153,161	2,356,664	5,728,400	5,502,292	6.50	0	0	0	0.00	2.8	1.8	0.0	36,314	43,246	0	0	0
4	4.6	153,161	2,356,664	5,728,400	5,536,925	6.50	0	0	0	0.00	2.6	1.6	0.0	37,323	0	0	0	0
5	4.9	153,183	2,356,664	5,728,400	5,573,236	6.50	0	0	0	0.00	3.2	1.6	0.0	36,460	45,151	0	0	0
6	6.4	153,206	2,359,510	5,728,400	5,609,537	6.58	0	6,012	0	0.00	3.0	1.6	0.0	34,534	46,338	0	0	0
7	6.1	153,226	2,359,510	5,728,400	5,643,127	6.42	0	0	0	0.00	2.9	1.3	0.0	34,666	47,048	0	0	0
8	6.5	153,242	2,359,510	5,728,400	5,673,970	6.42	0	0	0	0.00	2.8	1.3	0.0	34,666	46,666	0	0	0
9	5.7	153,259	2,359,510	5,728,400	5,707,472	6.58	0	0	0	0.00	2.7	1.1	0.0	36,898	47,605	0	0	0
10	4.9	153,269	2,362,292	5,728,400	5,741,274	6.67	0	0	0	0.87	2.8	0.8	0.0	37,057	54,412	0	0	0
11	4.8	153,269	2,365,425	5,728,400	5,772,338	6.92	0	0	0	0.65	2.4	1.0	0.0	38,373	0	0	0	0
12	4.5	153,323	2,374,230	5,728,400	5,804,110	7.00	0	18,042	0	4.43	3.2	1.2	0.0	23,920	0	0	0	0
13	24.7	153,351	2,403,185	5,728,400	5,812,350	7.50	0	0	0	0.88	3.6	2.2	0.0	22,475	0	0	24,157	0
14	25.0	153,370	2,429,873	5,728,400	5,840,827	8.58	0	0	0	0.04	3.5	2.3	0.0	26,553	0	0	30,182	0
15	4.6	153,396	2,440,325	5,728,400	5,890,916	10.00	0	0	0	0.00	3.4	2.3	0.0	22,396	0	0	30,278	0
16	4.2	153,480	2,444,437	5,730,140	5,926,893	10.67	0	6,134	0	0.00	3.2	2.3	0.0	28,180	39,655	0	0	0
17	4.5	153,574	2,447,799	5,730,780	5,963,306	10.67	0	0	0	0.00	3.0	2.2	0.0	29,778	56,439	0	0	0
18	4.0	153,614	2,447,799	5,733,275	5,998,275	11.00	0	0	0	0.07	2.4	2.2	0.0	31,333	0	0	0	0
19	3.7	153,674	2,450,648	5,734,220	6,035,372	11.67	0	12,067	0	0.00	3.0	2.2	0.0	35,704	49,523	0	0	0
20	3.5	153,693	2,450,648	5,736,760	6,070,544	11.67	0	18,202	0	0.00	2.7	2.2	0.0	36,586	55,391	0	0	0
21	4.0	153,717	2,450,648	5,739,040	6,107,935	11.58	0	12,280	0	0.00	2.3	2.1	0.0	37,600	51,573	0	0	0
22	3.8	153,741	2,450,648	5,740,740	6,143,406	10.42	0	12,033	0	0.00	2.0	2.0	0.0	40,372	51,174	0	0	0
23	3.7	153,768	2,450,648	5,743,050	6,179,729	10.17	0	6,018	0	0.00	1.6	2.0	0.0	31,348	38,972	0	0	0
24	4.3	153,773	2,453,272	5,746,130	6,219,030	10.17	0	0	0	0.00	2.3	1.6	0.0	34,776	35,874	0	0	0
25	4.1	153,868	2,456,186	5,748,920	6,257,736	10.50	0	0	0	0.90	2.2	1.8	0.0	39,146	0	0	0	0
26	3.8	153,877	2,456,186	5,749,390	6,299,358	10.67	0	6,025	0	0.00	3.0	1.8	0.0	36,272	0	0	0	0
27	3.4	153,884	2,456,186	5,751,530	6,337,150	10.58	0	0	0	0.00	3.6	1.8	0.0	33,245	0	0	0	0
28	4.3	153,921	2,459,096	5,752,380	6,368,898	10.58	0	12,543	0	0.00	3.6	2.1	0.0	38,177	47,307	0	0	0
29	3.9	153,940	2,459,096	5,753,780	6,400,795	10.00	0	18,059	0	0.00	3.3	2.1	0.0	34,796	46,214	0	0	0
30	3.1	153,951	2,459,096	5,754,870	6,433,724	9.50	0	12,032	0	0.00	3.1	2.1	0.0	35,069	70,463	0	0	0

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Notes:

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

Type of Cover	Phases I-VI acres	Sections 7-8 acres
Open	6	0
Intermediate	133.4	12.5
Final	23	0
Not Opened	0	0

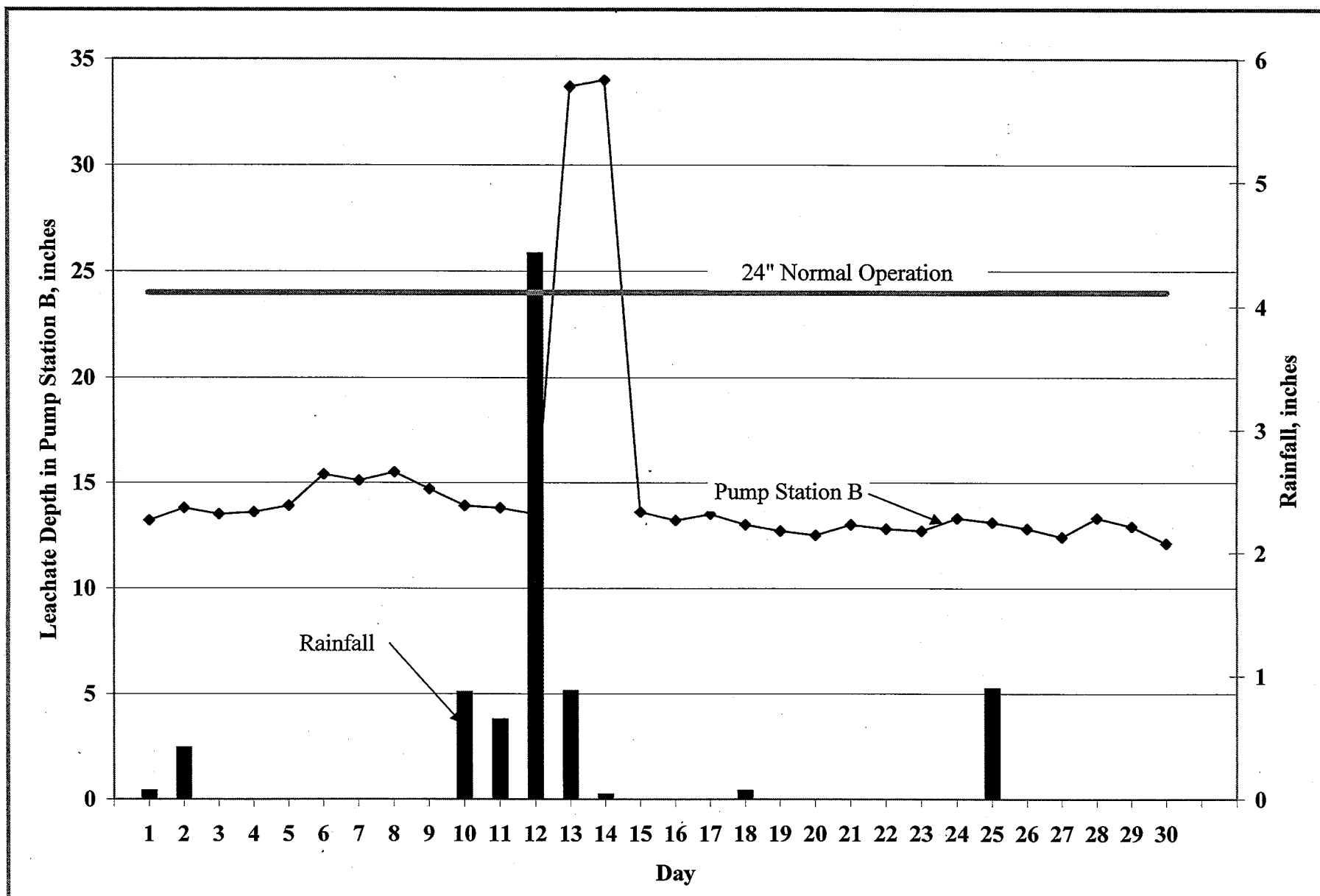


Figure 1. Leachate Levels in Pump Station B and Rainfall for June 2006.

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

Month	Rainfall (in.)	Leachate Arriving at LTRF			Leachate Leaving LTRF			Effluent Disposal			Inflow / Outflow For LTRF		
		Leachate Hauled to LTRF from HHLF/TRLF (gal.)	Leachate from Section 7 Pumped to LTRF (gal.)	Leachate from Phases I-VI Pumped to LTRF (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Leachate Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)	Change in Storage ³ (gal.)
January	0.59	0	57,924	1,174,148	180,605	0	1,330,200	54,484	0	1,069,058	1,232,072	1,510,805	-278,733
February	3.73	0	100,705	1,036,262	246,866	87,519	901,500	18,107	0	790,611	1,136,967	1,235,885	-98,918
March	0.10	0	58,666	1,146,298	235,508	160,066	1,034,200	0	0	985,357	1,204,964	1,429,774	-224,810
April	0.17	0	26,367	1,073,620	162,705	20,042	1,119,100	0	0	857,079	1,099,987	1,301,847	-201,860
May	1.22	0	2,353,900	5,398,493	24,055	0	1,186,800	0	0	1,132,512	7,752,393	1,210,855	6,541,538
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	0.00	0	0	0	0	0	0	0	0	0	0	0	0
August	0.00	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	14.14	0	2,702,758	10,864,052	989,186	267,627	6,588,900	157,208	0	5,804,865	13,566,810	7,845,713	5,721,097

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Note:

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

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

(Month/Year) June, 2006

Date	TPS-6		Depth ¹ in Pond B (feet)	Pump ² Station B (inches)	PS-A Flow Meter (gallons)	Section 7		Depth in 575k Tank (feet)	Leachate Hauled		Leachate Dust Control/ Evap. (gallons)	Rainfall (inches)
	Depth (inches)	Flowmeter (gallons)				Flowmeter (gallons)	Leak Detection (gallons)		Contractor (gallons)	County (gallons)		
1	0.0	0	0.00	4.2	34,194	0	24	6'3"	0	0		0.07
2	0.0	0	0.00	4.8	34,306	0	6	6'3"	0	0		0.42
3	0.0	0	0.00	4.5	35,299	2,764	12	6'6"	0	0		0.00
4	0.0	0	0.00	4.6	34,633	0	0	6'6"	0	0		0.00
5	0.0	0	0.00	4.9	36,311	0	22	6'6"	0	0		0.00
6	0.0	0	0.00	6.4	36,301	2,846	23	6'7"	0	6,012		0.00
7	0.0	0	0.00	6.1	33,590	0	20	6'5"	0	0		0.00
8	0.0	0	0.00	6.5	30,843	0	16	6'5"	0	0		0.00
9	0.0	0	0.00	5.7	33,502	0	17	6'7"	0	0		0.00
10	0.0	0	0.00	4.9	33,802	2,782	10	0.00	0	0		0.87
11	0.0	0	0.00	4.8	31,064	3,133	0	6'11"	0	0		0.65
12	0.0	0	0.00	4.5	31,772	8,805	54	7'0"	0	18,042		4.43
13	0.0	0	0.00	24.7	8,240	28,955	28	7'6"	0	0		0.88
14	0.0	0	0.00	25.0	28,477	26,688	19	8'7"	0	0		0.04
15	0.0	0	0.00	4.6	50,089	10,452	26	10'0"	0	0		0.00
16	0.0	1,740	0.00	4.2	35,977	4,112	84	10'8"	0	6,134		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: *Ragmark*

Revised Jan. 16, 2004

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

(Month/Year) June, 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	640	0.00	4.5	36,413	3,362	94	10'8"	0	0		0.00
18	0.0	2,495	0.00	4.0	34,969	0	40	11'0"	0	0		0.07
19	0.0	945	0.00	3.7	37,097	2,849	60	11'8"	0	12,067		0.00
20	0.0	2,540	0.00	3.5	35,172	0	19	11'8"	0	18,202		0.00
21	0.0	2,280	0.00	4.0	37,391	0	24	11'7"	0	12,280		0.00
22	0.0	1,700	0.00	3.8	35,471	0	24	10'5"	0	12,033		0.00
23	0.0	2,310	0.00	3.7	36,323	0	27	10'2"	0	6,018		0.00
24	0.0	3,080	0.00	4.3	39,301	2,624	5	10'2"	0	0		0.00
25	0.0	2,790	0.00	4.1	38,706	2,914	95	10'6"	0	0		0.60
26	0.0	470	0.00	3.8	41,622	0	9	10'8"	0	6,025		0.00
27	0.0	2,140	0.00	3.4	37,792	0	7	10'7"	0	0		0.00
28	0.0	850	0.00	4.3	31,748	2,910	37	10'7"	0	12,543		0.00
29	0.0	1,400	0.00	3.9	31,897	0	19	10'0"	0	18,059		0.00
30	0.0	1,097	0.00	8.1	32,929	0	11	9'6"	0	12,032		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 K. Shaw

Revised Jan. 16, 2004

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

(Month/Year)

June, 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	2.10	0	36,191	50,438		0	0				N
2	2.60	1.70	0	36,713	46,759		0	0				N
3	2.80	1.80	0	36,314	43,246		0	0				N
4	2.60	1.60	0	37,323	0		0	0				
5	3.20	1.60	0	36,460	45,151		0	0				N
6	3.00	1.60	0	34,534	46,338		0	0				N
7	2.90	1.30	0	34,666	47,048		0	0				N
8	2.80	1.30	0	34,666	46,666		0	0				N
9	2.70	1.10	0	36,898	47,605		0	0				N
10	2.80	0.80	0	37,057	54,412		0	0				N
11	2.40	1.00	0	38,373	0		0	0				
12	3.20	1.20	0	23,920	0		0	0				
13	3.60	2.20	0	22,475	0		0	24,157				
14	3.50	2.30	0	26,553	0		0	30,182				
15	3.40	2.30	0	22,396	0		0	30,278				
16	3.20	2.30	0	28,180	39,655		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 L. Sauer

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

(Month/Year) June, 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	3.00	2.20	0	29,778	56,439		0	0				N
18	2.40	2.20	0	31,333	0		0	0				
19	3.00	2.20	0	35,704	49,523		0	0				N
20	2.70	2.20	0	36,586	55,391		0	0				N
21	2.30	2.10	0	37,600	51,573		0	0				N
22	2.00	2.00	0	40,372	51,174		0	0				N
23	1.60	2.00	0	31,348	38,972		0	0				N
24	2.30	1.60	0	34,776	35,874		0	0				N
25	2.20	1.80	0	39,146	0		0	0				
26	3.00	1.80	0	36,272	0		0	0				
27	3.60	1.80	0	33,245	0		0	0				
28	3.60	2.10	0	38,177	47,307		0	0				N
29	3.30	2.10	0	34,796	46,214		0	0				N
30	3.10	2.10	0	35,069	70,463		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 J. Davis*