

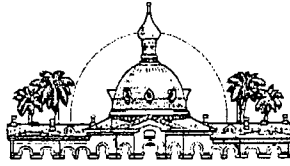
# HILLSBOROUGH COUNTY

Florida

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January 17, 1996

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

D.E.P.  
JAN 23 1996  
SOUTHWEST DISTRICT  
TAMPA

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

The Hillsborough County Department of Solid Waste (DSW) is providing the final construction report prepared by Law Engineering for the November 21, 1995 construction of the pump control well/settlement plate in Phase IV. The report also includes the drilling information from the July 5, 1995 construction of the Phase IV piezometer.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as a supplement to the information provided in the DSW's January 10, 1996 correspondence.

Please advise should you have any questions or require additional information at this time.

Sincerely,

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

Attachment

xc: Matt Matthews, DSW  
Larry Ruiz, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

**LAW**

ENGINEERING AND ENVIRONMENTAL SERVICES

January 11, 1996

Mr. David S. Adams  
Hillsborough County  
Department of Solid Waste  
P.O. Box 1110  
Tampa, Florida 33601



Subject: **Report of Drilling Services  
SOUTHEAST LANDFILL  
Hillsborough County, Florida  
LAW Project No. 40121-5-6946**

Dear Mr. Adams:

Law Engineering and Environmental Services, Inc. (LAW) is pleased to submit our report of drilling services for the above-referenced project. Our services were performed in general accordance with our Revised Cost Estimate No. 40121-5-6946 dated November 9, 1995. Our services were authorized by Hillsborough County Work Order No. TI-03-95-1056. This report presents a review of the project information and a summary of our field services. The Appendix contains a site location map, a field location plan, test boring records, and piezometer details.

### **Project Information**

The purpose of our drilling services was to install two piezometers at the Southeast Landfill (SELF), Hillsborough County, Florida. The piezometers were designed by SCS Engineers, Inc. to monitor leachate levels in the sand drainage layer. The SELF is located 8.8 miles east of U.S. Highway 301 off County Road 672.

### **Field Services**

Field services were performed by LAW representatives on July 5, 1995 and November 21, 1995. Present at the site during our field services were Mr. David Adams of Hillsborough County and Mr. Larry Ruiz of SCS Engineers, Inc. On July 5, 1995, Piezometer No. 1 was installed in alternate location "ALT-2"

LAW ENGINEERING, INC.

4919 WEST LAUREL STREET • TAMPA, FL 33607  
P.O. BOX 24183 • TAMPA, FL 33623  
(813) 289-0750 • FAX (813) 289-5474

after the original piezometer location was aborted. The original piezometer location was aborted because the clay confining layer was penetrated during drilling operations and the top of clay could not be accurately defined. On November 21, 1995, Piezometer No. 2 was installed. This piezometer is intended to be utilized as a pump control well. The piezometer locations are noted on the Field Location Plan in the Appendix.

The installation of the two piezometers is summarized as follows:

#### PIEZOMETER No. 1

##### 1) Drilling Operations

- A 10-inch nominal diameter borehole was augered through the waste layer to a depth of approximately 19.5 feet below land surface (bls).
- Continuous split spoon sampling was performed through the sand drainage layer located from 19.5 to 22.5 feet bls.
- Boring 1 was terminated at 22.5 feet bls where the clay confining layer was encountered.
- David Adams classified the drill cuttings in the field and provided soil descriptions and depths to LAW. The soils encountered are shown on the Test Boring Records in the Appendix.

##### 2) Piezometer Installation

- Once the boring was terminated, a 4-inch diameter piezometer was installed in the borehole. The piezometer consisted of Schedule 80 PVC pipe and slotted screen, a bottom end cap, and lockable top end cap. The top of the piezometer extended approximately 3 feet above the ground surface.
- The annulus between the PVC and the borehole wall was filled with several different materials. The materials and depth used to fill each piezometer annulus are included in Table 1.

#### PIEZOMETER No. 2

##### 1) Drilling Operations

- A 10-inch nominal diameter borehole was augered through the waste layer to a depth of approximately 19.5 feet below land surface (bls).
- Continuous split spoon sampling was performed through the sand drainage layer located from 19.5 to 22.5 feet bls. Split sampling continued 6-inches into the clay confining layer in Boring 2 for a total depth of 23 feet.

- Boring 1 was terminated at 22.5 feet bls where the clay confining layer was encountered. At the request of Larry Ruiz, Boring 2 was terminated at 23 feet bls, 6-inches into the clay confining layer. This was done so that the screen slots would be located at or slightly above the top of the clay confining layer.
- David Adams classified the drill cuttings in the field and provided soil descriptions and depths to LAW. The soils encountered are shown on the Test Boring Records in the Appendix.

## 2) Piezometer Installation

- Once the boring was terminated, a 4-inch diameter piezometer was installed in the borehole. The piezometer consisted of Schedule 80 PVC pipe and slotted screen, a bottom end cap, and lockable top end cap. The top of the piezometer extended approximately 3 feet above the ground surface.
- The annulus between the PVC and the borehole wall was filled with several different materials. The materials and depth used to fill each piezometer annulus are included in Table 1.

Table 1

Piezometer Number	Material	Depth Range (Feet bls)
1	Clayey Sand	0.0 - 1.5
	Bentonite	1.5 - 17.5
	60/145 Sand	17.5 - 19.5
	20/30 Sand	19.5 - 22.5
2	Clayey Sand	0.0 - 1.5
	Bentonite	1.5 - 17.5
	60/145 Sand	17.5 - 19.5
	Pea Gravel	19.5 - 23.0

Illustrations of both piezometers are located in the Appendix.

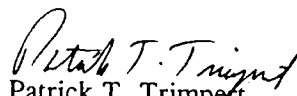


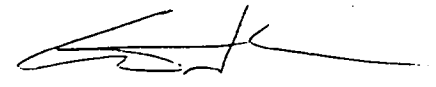
**Closing**

We appreciate the opportunity to provide these services. If you have any questions or comments regarding this report, please contact our Tampa office.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

  
Patrick T. Trimport  
Project Manager

  
Curtis J. Roos, P.E.  
Principal Engineer  
Florida Registration No. 27570

PTT/CJR/jl:56946.RPT

Distribution: (2) Addressee

Appendix: Site Location Map (Figure 1)  
Field Location Plan (Figure 2)  
Test Boring Records  
Piezometer No. 1 Detail (Figure 3)  
Piezometer No. 2 Detail (Figure 4)

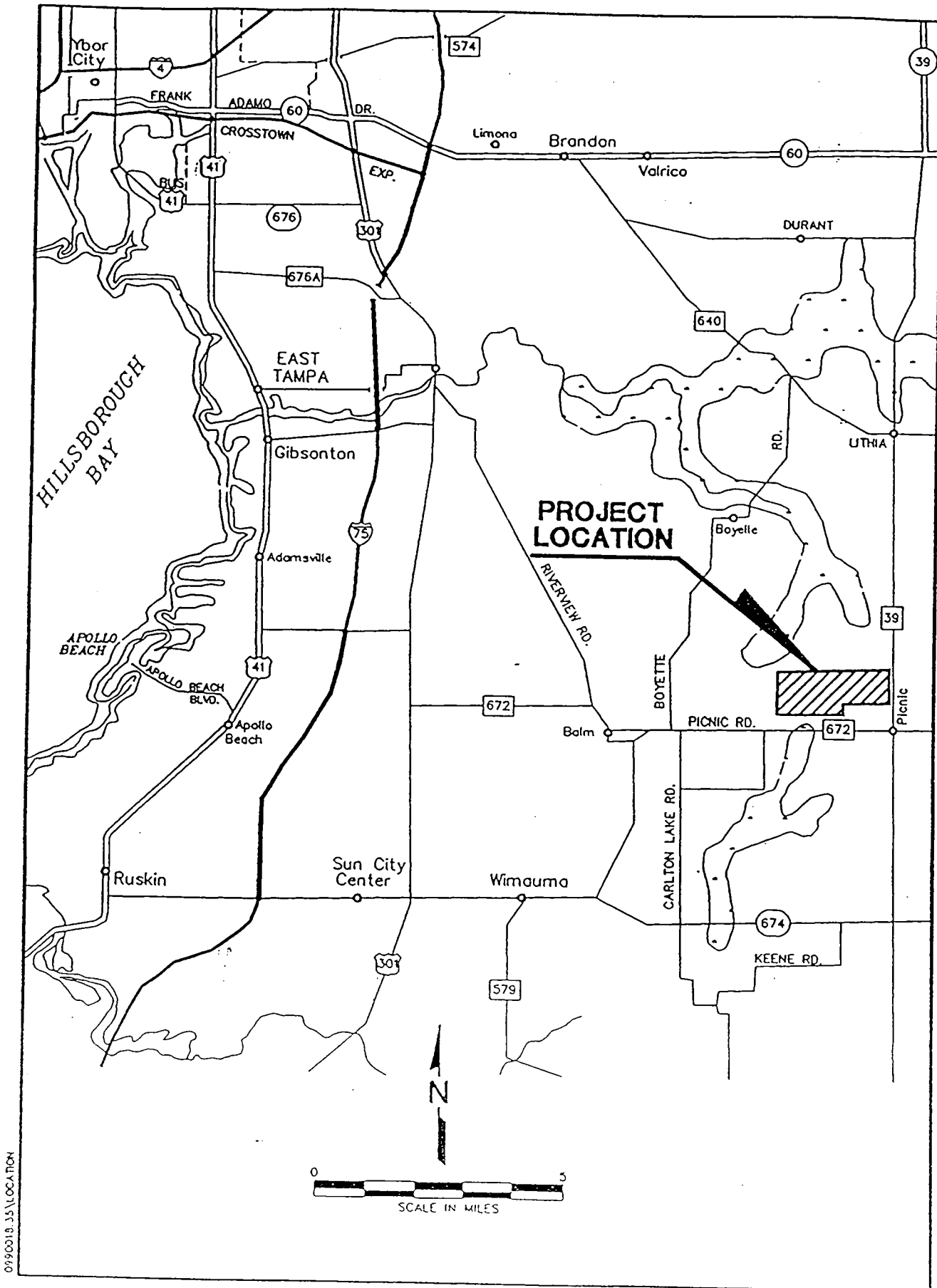


Figure 1 SITE LOCATION MAP  
LAW No. 40121-5-6946

Drawing provided by  
Hillsborough County.

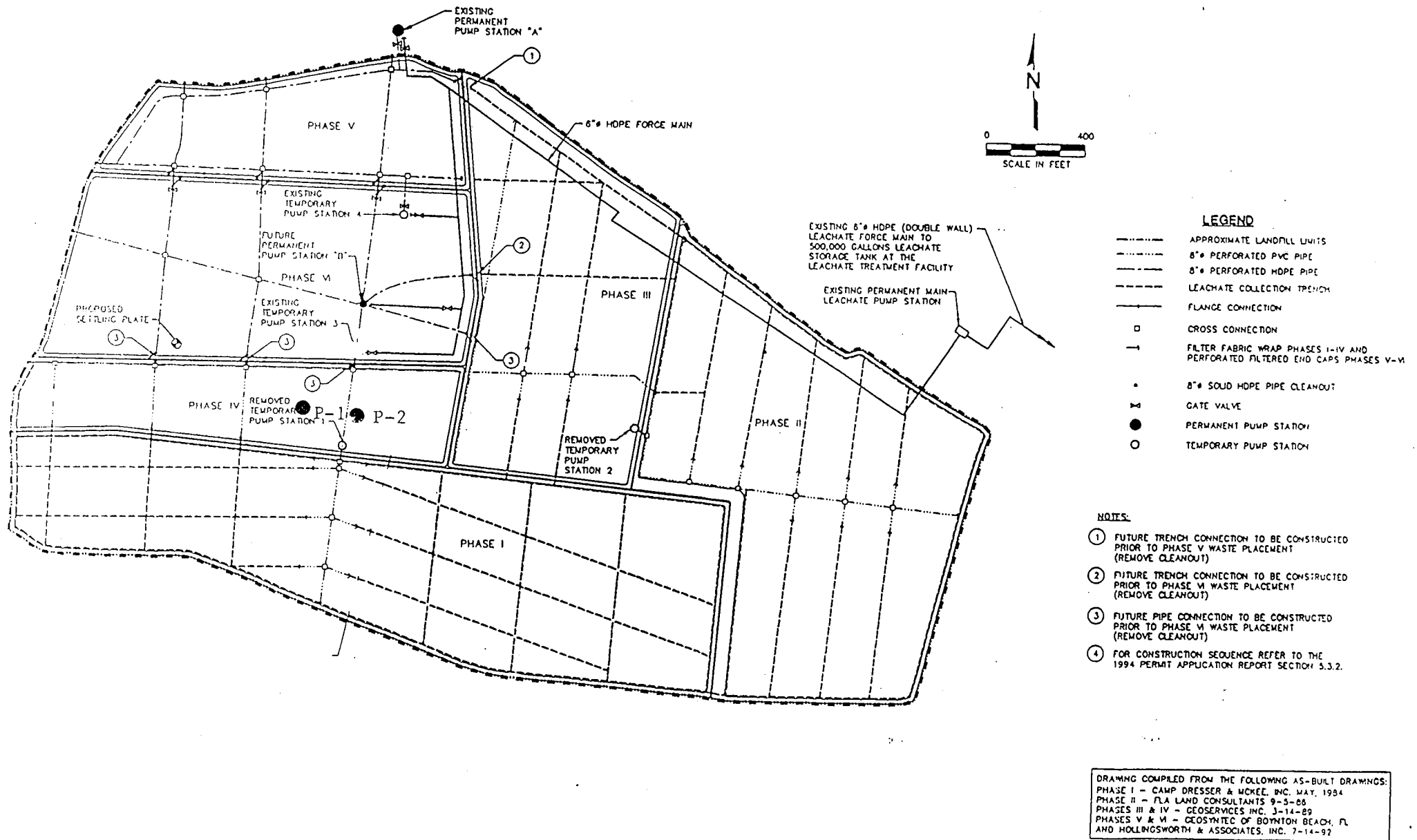


Figure 2 FIELD LOCATION PLAN  
LAW No. 40121-5-6946

Drawing provided by  
Hillsborough County.

DEPTH (FT.)	DESCRIPTION	ELEVATION (FT.)	● PENETRATION - BLOWS/FOOT									
			0	10	20	30	40	60	80	100		
0.0	Grass & Roots, fine sand, light gray, slightly silty (TOPSOIL)											
1.0	Fine sand, light to dark gray, slightly silty, dark gray to black ash near bottom (SM)											
3.0	Dark gray to black ash mixed with waste such as wood, metal, plastic, and tire chips (FILL)											
19.0												
19.5	Dark gray to black ash material mixed with waste material and traces of sand (FILL)											
20.0	Grading dark to light gray sand, slightly silty, with no waste materials (SM)											
20.5												
21.0												
21.5	BEGIN SPLIT SPOON SAMPLING											
22.5	Gray sand, poorly sorted (SP)											
	Gray sand, poorly sorted (SP)											
23.2	Gray sand, poorly sorted (SP)											
	Gray sand, Spoon dropped 1 ft. with three hammer blows, very little sample in spoon (SP)											
	Gray sand, very little sample in spoon, clay was evident on outside of the spoon (SC)											
	BORING TERMINATED											

REMARKS:

#### TEST BORING RECORD

BORING NUMBER P1-ALT1  
 DATE DRILLED July 5, 1995  
 PROJECT NUMBER 40121-5-6946  
 PROJECT Southeast Landfill  
 PAGE 1 OF 1

SEE KEY SHEET FOR EXPLANATION OF SYMBOLS AND ABBREVIATIONS USED ABOVE



LAW ENGINEERING



DEPTH (FT.)	DESCRIPTION	ELEVATION (FT.)	● PENETRATION - BLOWS/FOOT									
			0	10	20	30	40	60	80	100		
0.0	Grass & Roots, fine sand, light grey, slightly silty (TOPSOIL)											
1.0	Fine sand, light to dark gray slightly silty, dark gray to black ash near bottom (SM)											
3.0	Dark gray to black ash mixed with waste such as wood, metal, plastic, some sand (FILL)											
19.0												
19.5	Dark gray ash with traces of gray sand (FILL) BEGIN SPLIT SPOON SAMPLING Wood chips from above gray sand, poorly sorted (FILL)											
21.5												
22.0	Gray sand, poorly sorted (SP)											
22.5	Gray sand, no clay evident on shoe of spoon (SP)											
23.0	Light gray clay, cohesive, plastic (SC) BORING TERMINATED											

REMARKS:

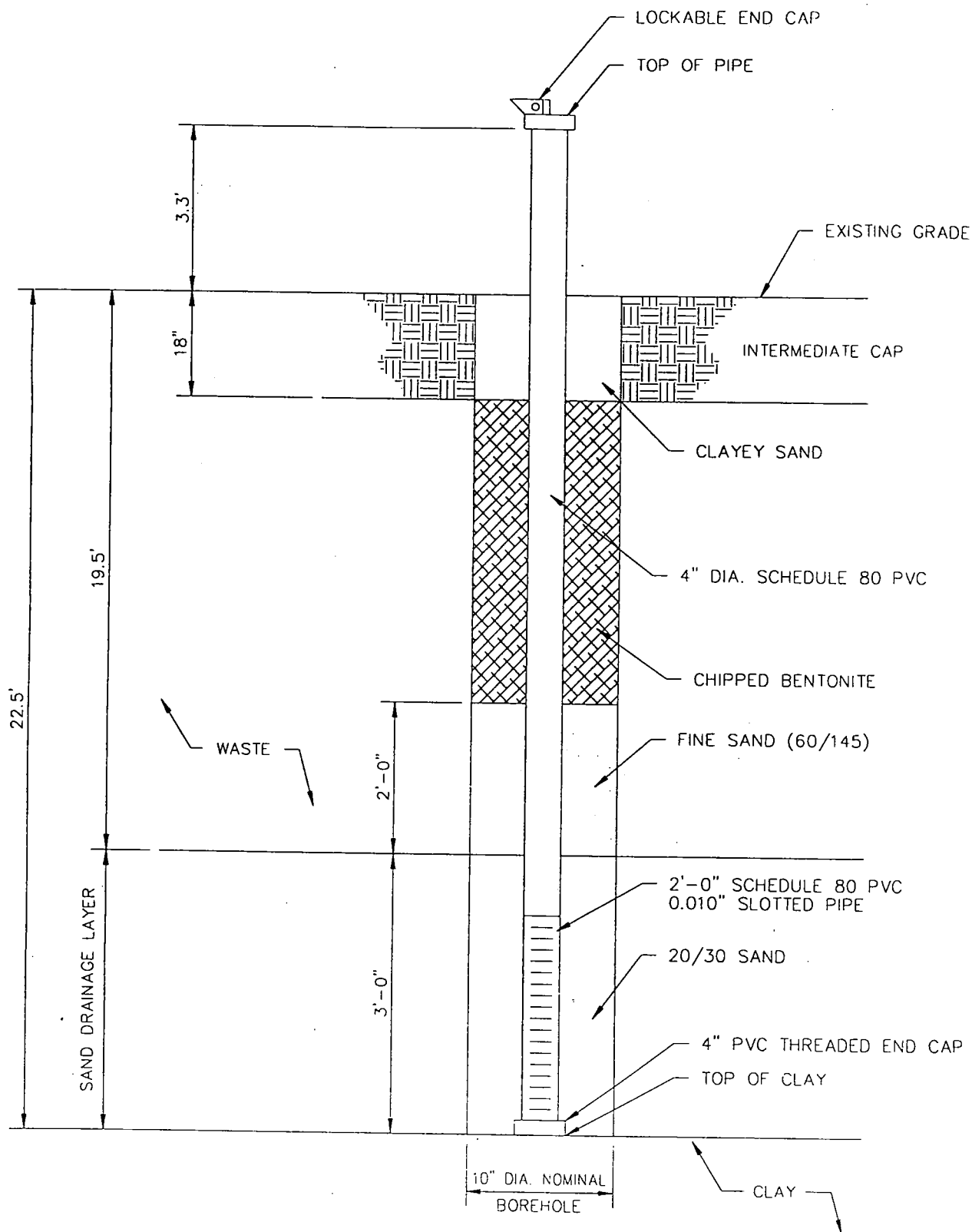
#### TEST BORING RECORD

BORING NUMBER P-2 - Pump Control Well  
 DATE DRILLED November 21, 1995  
 PROJECT NUMBER 40121-5-6946  
 PROJECT Southeast Landfill  
 PAGE 1 OF 1

SEE KEY SHEET FOR EXPLANATION OF  
SYMBOLS AND ABBREVIATIONS USED ABOVE



LAW ENGINEERING



NOT TO SCALE

Prepared/Date: JFW 12/20/95  
 Checked/Date:

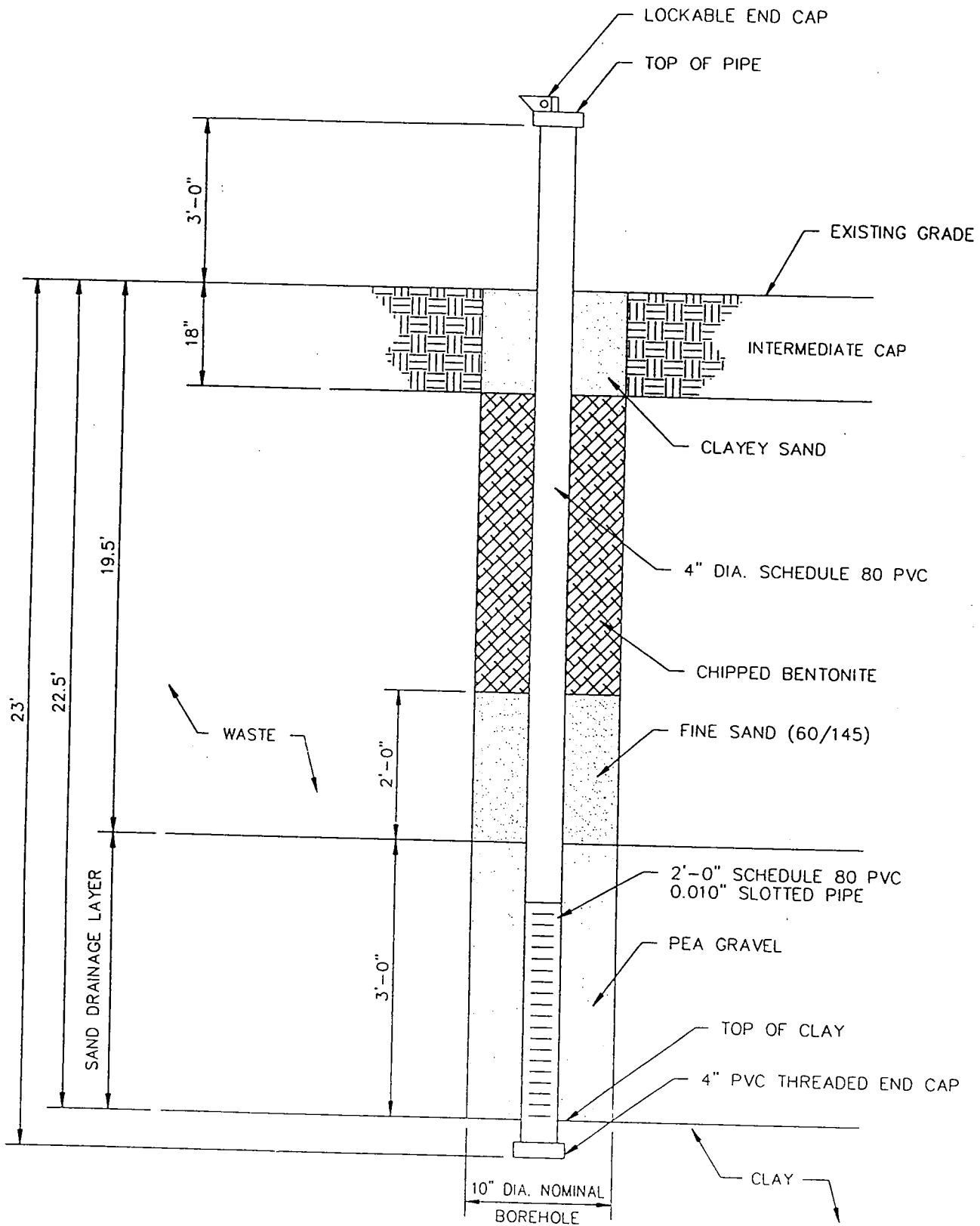
HILLSBOROUGH COUNTY  
 SOUTHEAST LANDFILL  
 HILLSBOROUGH COUNTY, FLORIDA

**LAW**

ENGINEERING AND ENVIRONMENTAL  
 SERVICES

PIEZOMETER 1

Project 40121-5-6946 Figure 3



Prepared/Date: JFW 12/20/95  
 Checked/Date: PT 12/20/95

HILLSBOROUGH COUNTY  
 SOUTHEAST LANDFILL  
 HILLSBOROUGH COUNTY, FLORIDA



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PIEZOMETER 2

Project 40121-5-6946 Figure 4



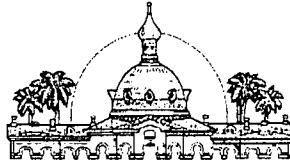
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Robert Taylor

D.E.P.

JAN 17 1996

SOUTHWEST DISTRICT  
TAMPA

January 10, 1996

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the month of December 1995. In addition, the DSW is providing the December 1995 field data forms for the Landfill, the daily leachate and collection system evaluation reports, and the Year-to-Date Leachate Balance Summary. In addition, the DSW is providing the leachate level readings at the recently constructed pump control well.

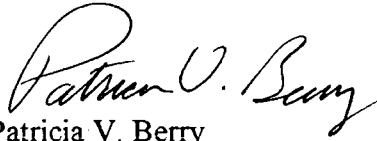
The DSW has received and reviewed the draft construction report prepared by Law Engineering for the November 21, 1995 construction of the pump control well/settlement plate in Phase IV. The report also includes the drilling information from the July 5, 1995 construction of the Phase IV piezometer. The DSW has returned the report to Law for finalization and will forward a copy of the final report to the Department of Environmental Protection (DEP) once it is received. The DSW is also providing the as-built drawing and location map for the Phase VI settlement plate construction which was completed on December 7, 1995.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

Mr. Kim Ford  
January 10, 1996  
Page Two

Please advise should you have any questions or require additional information at this time.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

Attachments

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

LEACHATE WATER BALANCE REPORT FORM  
DECEMBER 1995  
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Pumped From Sta. No 3 (gal.)	Pumped From Sta. No. 5 (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	29.0	56.5	8,953,000	0	91,900	91,900	317,000	60,000	37,170	0	92,000	42,900	0	12,000	35,000
2	23.2	5.0	92.2	0.0	27.0	56.3	8,837,000	2,000	82,200	84,200	302,000	60,000	0	0	85,000	42,900	0	56,000	35,000
3	23.2	5.0	92.2	0.0	NR	NR	NR	2,000	82,200	84,200	NR	60,000	0	0	NR	0	0	0	0
4	23.2	5.0	92.2	0.0	28.0	56.0	8,721,000	3,020	88,980	92,000	331,000	60,000	54,393	0	88,000	42,900	8,500	37,000	42,000
5	23.2	5.0	92.2	0.0	25.0	55.0	8,258,000	0	89,400	89,400	317,000	60,630	43,484	0	78,000	42,900	8,500	31,000	42,000
6	23.2	5.0	92.2	0.0	30.0	55.8	8,606,000	0	82,200	82,200	288,000	60,100	66,164	0	95,000	42,900	8,500	12,000	42,000
7	23.2	5.0	92.2	0.0	25.0	56.0	8,721,000	0	85,900	85,900	230,000	60,290	49,613	0	78,000	0	0	12,000	0
8	23.2	5.0	92.2	0.0	29.0	55.0	8,258,000	0	88,500	88,500	245,000	60,230	16,500	0	92,000	30,450	17,000	62,000	38,000
9	23.2	5.0	92.2	0.0	29.0	55.0	8,258,000	0	82,400	82,400	230,000	60,620	0	0	92,000	0	17,000	62,000	14,000
10	23.2	5.0	92.2	0.0	NR	NR	NR	0	82,400	82,400	NR	60,000	0	0	NR	0	0	0	0
11	23.2	5.0	92.2	0.0	44.0	53.0	7,331,000	0	82,600	82,600	259,000	60,340	37,569	0	146,000	42,900	0	43,000	35,000
12	23.2	5.0	92.2	0.0	36.0	53.0	7,331,000	0	84,500	84,500	230,000	60,200	37,174	0	116,000	10,525	17,000	25,000	22,000
13	23.2	5.0	92.2	0.0	31.0	54.0	7,794,000	0	70,800	70,800	230,000	60,250	12,554	0	99,000	0	17,000	0	14,000
14	23.2	5.0	92.2	0.0	31.0	53.5	7,562,000	0	95,900	95,900	230,000	60,250	0	0	99,000	0	26,000	0	21,000
15	23.2	5.0	92.2	0.0	27.0	54.0	7,794,000	0	86,200	86,200	259,000	60,250	18,904	0	85,000	0	8,500	62,000	7,000
16	23.2	5.0	92.2	0.0	27.0	54.8	8,142,000	0	86,050	86,050	259,000	60,300	0	0	85,000	0	8,500	62,000	7,000
17	23.2	5.0	92.2	0.0	NR	NR	NR	0	86,050	86,050	NR	60,050	0	0	NR	0	0	0	0
18	23.2	5.0	92.2	0.0	42.0	54.8	8,142,000	0	90,300	90,300	302,000	60,150	11,500	0	138,000	12,000	0	62,000	10,000
19	23.2	5.0	92.2	0.0	42.0	55.5	8,490,000	0	94,900	94,900	302,000	60,100	12,415	0	138,000	20,210	0	50,000	16,000
20	23.2	5.0	92.2	0.0	42.0	55.3	8,374,000	0	80,500	80,500	317,000	60,250	41,002	0	138,000	30,580	8,500	37,000	32,000
21	23.2	5.0	92.2	0.0	41.0	53.8	7,678,000	0	81,400	81,400	288,000	60,250	12,336	0	135,000	30,000	1,700	49,000	26,000
22	23.2	5.0	92.2	0.0	38.0	54.0	7,794,000	0	84,900	84,900	288,000	60,110	25,032	0	124,000	30,000	0	37,000	24,000
23	23.2	5.0	92.2	0.0	41.0	54.0	7,794,000	0	54,750	54,750	259,000	60,310	0	0	135,000	30,000	1,700	62,000	26,000
24	23.2	5.0	92.2	0.0	NR	NR	NR	810	53,940	54,750	NR	60,080	0	0	NR	30,000	0	62,000	24,000
25	23.2	5.0	92.2	0.0	NR	NR	NR	810	108,690	109,500	NR	60,220	0	0	NR	30,000	0	0	24,000
26	23.2	5.0	92.2	0.0	40.0	53.0	7,331,000	0	82,100	82,100	302,000	60,180	24,824	0	131,000	30,020	8,500	37,000	31,000
27	23.2	5.0	92.2	0.0	39.0	53.3	7,447,000	0	31,900	31,900	288,000	60,200	24,839	0	127,000	30,000	8,500	37,000	31,000
28	23.2	5.0	92.2	0.0	41.0	52.5	7,099,000	0	100,400	100,400	230,000	60,160	0	0	135,000	45,000	0	37,000	36,000
29	23.2	5.0	92.2	0.0	40.0	51.5	6,635,000	0	78,400	78,400	245,000	60,190	0	0	131,000	45,000	8,500	37,000	43,000
30	23.2	5.0	92.2	0.0	36.0	52.0	6,867,000	0	85,667	85,667	288,000	60,350	0	0	116,000	0	0	68,000	0
31	23.2	5.0	92.2	0.5	NR	NR	NR	0	85,667	85,667	NR	60,040	0	0	NR	0	0	62,000	0
Total				0.50	860.0	1357.3	198,217,000	8,640	2,561,693	2,570,333	6,836,000	1,866,100	525,473	0	2,778,000	661,185	173,900	1,113,000	677,000
Average				0.02	34.4	54.3	7,929,000	2,000	83,000	83,000	221,000	60,000	31,000	0	111,000	33,000	11,000	45,000	27,000

## Notes:

- NR = No Records.
- Column II, total area with waste is 120.4 acres (Phases I-IV).
- Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
- Column V, estimated from depth in Phase IV Piezometer.
- Column VI, estimated from Column V and approximate volume with top of clay elevation at 117.0 feet.
- Column VII calculated based on average 180 gpm and hour conversion.
- Column VIII calculated by subtracting VII from flow meter reading.
- Column IX, quantity from flow meter.
- Column X, calculated from depth in 500,000 gal. leachate tank.
- Columns XI and XV, quantities from flow meters.
- Columns XII, XIII, XVI, and XVII, quantities calculated from truck weight.
- Column XVIII, 80.8% of the daily values from Columns XIII, XV and XVI.
- Values in italic are substitute for missing data and are based on averaged values.

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**FIELD DATA ENTRY FORM**  
**DECEMBER 1995**  
**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	Active Area (ac.)	Depth in Effl. Pond (in.)	Stormwater In Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Hauled		Leachate Recirc. (gal.)	Effluent Hauled		Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)	Pumped to LTRF Reading (gal.)	Sta. No. 3 Reading (hours)
								Contractor (gal.)	County (gal.)		Contractor (gal.)	County (gal.)						
1	5.0	29.0	71.0	3.5	13.0	56.5	0.0	18,230	18,940	0	12,200	0	0	60,000	42,900	11.0	2,533,000	3,100.77
2	5.0	27.0	71.0	4.0	13.5	56.3	0.0	0	0	0	55,654	0	0	60,000	42,900	10.5	2,624,900	3,100.77
3	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	60,000	0	NR	<b>2,709,100</b>	<b>3,100.96</b>
4	5.0	28.0	70.0	4.0	16.0	56.0	0.0	37,393	17,000	0	36,887	0	8,500	60,000	42,900	11.5	2,793,300	3,101.14
5	5.0	25.0	70.0	9.0	15.0	55.0	0.0	43,484	0	0	30,887	0	8,500	60,630	42,900	11.0	2,885,300	3,101.42
6	5.0	30.0	70.0	3.5	12.3	55.8	0.0	49,664	16,500	0	12,300	0	8,500	60,100	42,900	10.0	2,974,700	3,101.42
7	5.0	25.0	NR	3.0	12.0	56.0	0.0	49,613	0	0	12,300	0	0	60,290	0	8.0	3,056,900	3,101.42
8	5.0	29.0	NR	3.5	12.0	55.0	0.0	0	16,500	0	61,670	0	17,000	60,230	30,450	8.5	3,142,800	3,101.42
9	5.0	29.0	NR	3.5	12.0	55.0	0.0	0	0	0	61,982	0	17,000	60,620	0	8.0	3,231,300	3,101.42
10	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	60,000	0	NR	<b>3,313,700</b>	<b>3,101.42</b>
11	5.0	44.0	NR	4.0	12.0	53.0	0.0	18,577	18,992	0	43,236	0	0	60,340	42,900	9.0	3,396,100	3,101.42
12	5.0	36.0	NR	4.0	12.0	53.0	0.0	37,174	0	0	24,661	0	17,000	60,200	10,525	8.0	3,478,700	3,101.42
13	5.0	31.0	NR	3.5	12.0	54.0	0.0	0	12,554	0	0	0	17,000	60,250	0	8.0	3,563,200	3,101.42
14	5.0	31.0	NR	3.5	15.5	53.5	0.0	0	0	0	0	0	26,000	60,250	0	8.0	3,634,000	3,101.42
15	5.0	27.0	NR	3.5	12.0	54.0	0.0	0	18,904	0	61,782	0	8,500	60,250	0	9.0	3,729,900	3,101.42
16	5.0	27.0	NR	3.0	12.3	54.8	0.0	0	0	0	61,970	0	8,500	60,300	0	9.0	3,816,100	3,101.42
17	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	60,050	0	NR	<b>3,902,150</b>	<b>3,101.42</b>
18	5.0	42.0	NR	3.8	12.3	54.8	0.0	0	11,500	0	62,043	0	0	60,150	12,000	10.5	3,988,200	3,101.42
19	5.0	42.0	NR	3.0	12.3	55.5	0.0	12,415	0	0	49,602	0	0	60,100	20,210	10.5	4,078,500	3,101.42
20	5.0	42.0	NR	3.0	12.0	55.3	0.0	24,902	16,100	0	36,974	0	8,500	60,250	30,580	11.0	4,173,400	3,101.42
21	5.0	41.0	NR	3.0	11.8	53.8	0.0	12,336	0	0	49,472	0	1,700	60,250	30,000	10.0	4,253,900	3,101.42
22	5.0	38.0	NR	3.0	12.0	54.0	0.0	25,032	0	0	36,949	0	0	60,110	30,000	10.0	4,335,300	3,101.42
23	5.0	41.0	NR	3.0	12.0	54.0	0.0	0	0	0	62,146	0	1,700	60,310	30,000	9.0	4,420,200	3,101.42
24	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	61,500	0	0	60,080	30,000	NR	<b>4,474,950</b>	<b>3,101.42</b>
25	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	60,220	30,000	NR	<b>4,529,700</b>	<b>3,101.50</b>
26	5.0	40.0	NR	2.8	12.0	53.0	0.0	24,824	0	0	37,025	0	8,500	60,180	30,020	10.5	4,639,200	3,101.57
27	5.0	39.0	NR	3.0	11.8	53.3	0.0	24,839	0	0	36,945	0	8,500	60,200	30,000	10.0	4,721,300	3,101.57
28	5.0	41.0	NR	3.0	21.3	52.5	0.0	0	0	0	37,268	0	0	60,160	45,000	8.0	4,753,200	3,101.57
29	5.0	40.0	NR	3.0	12.0	51.5	0.0	0	0	0	37,290	0	8,500	60,190	45,000	8.5	4,853,600	3,101.57
30	5.0	36.0	NR	3.0	12.0	52.0	0.0	0	0	0	67,600	0	0	60,350	0	10.0	4,932,000	3,101.57
31	5.0	NR	NR	NR	NR	NR	0.5	0	0	0	61,500	0	0	60,040	0	NR	<b>5,017,667</b>	<b>3,101.57</b>

**Notes:**

1. NR = No Records.
2. Columns II-VIII, field measured. Column VIII, Trace is less than 0.01 inches.
3. Column VI, if level exceeds 24 inches, leachate withdrawal from landfill must increase.
4. Column VII, Phase IV piezometer began monitoring on 7/10/95.
5. Columns IX-XIV, quantities calculated from truck weight.
6. Columns XV and XVI, quantities from flow meters.
7. Column XVII, field measured.
8. Column XVIII, reading from flow meter.
9. Column XIX, Hour reading from TPS-3.
10. Values in italic are substitute for missing data and are based on averaged values.

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LEACHATE DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) Dec. 95

Date	Active Area (acres)	(1) Phase IV Piezometer (inches)	Station No. 3 (inches)	Phase IV Riser (inches)	Phase III Riser (inches)	Station No. 4 (inches)	Depth in 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)
									Contractor (gallons)	County (gallons)		
1		56.5	7	13	3.5	71	11	330K	18,230	18,940	Ø	Ø
2		56.25	7	13.5	4	71	10.5	315K	Ø	Ø	Ø	Ø
3		NR	NR	NR	NR	NR	NR	NR	Ø	Ø	Ø	Ø
4		56	7	16	4	70	11.5	345K	57,393	17,000	Ø	Ø
5		55	7	15	9	70	11	330K	43,484	Ø	Ø	Ø
6		55.75	7	12.25	3.5	70	10	300K	49,664	16,500	Ø	Ø
7		56	7	12	3	NR	8	255K	49,613	Ø	Ø	Ø
8		55	7	12	3.5	NR	8.5	240K	Ø	16,500	Ø	Ø
9		55	7	12	3.5	NR	8	255K	Ø	Ø	Ø	Ø
10		NR	NR	NR	NR	NR	NR	NR	Ø	Ø	Ø	Ø
11		53	7	12	4	NR	9	270K	18,577	18,992	Ø	Ø
12		53	7	12	4	NR	8	240K	37,174	Ø	Ø	Ø
13		54	7	12	3.5	NR	8	240K	Ø	12,554	Ø	Ø
14		53.5	15	15.5	3.5	NR	8	240K	Ø	Ø	Ø	Ø
15		54	7	12	3.5	NR	9	270K	Ø	18,904	Ø	Ø
16		54.75	7	12.25	3	NR	9	270K	Ø	Ø	Ø	Ø
Leachate Hauled Subtotal												

(1) If depth is greater than 24 inches (2.0 feet): Contact Supervisor immediately. Complete Evaluation Report Form.

Comments: Dec. 14, 24 and 28 Pump down Due To Fuel Problems

Prepared by:

M. Matlock

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

(Month/Year) Dec 95

Date	Active Area (acres)	(1) Phase IV Piezometer (inches)	Station No. 3 (inches)	Phase IV Riser (inches)	Phase III Riser (inches)	Station No. 4 (inches)	Depth in 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)
									Contractor (gallons)	County (gallons)		
17		NR	NR	NR	NR	NR	NR	NR	Ø	Ø	Ø	Ø
18		54.75	7	12.25	3.75	NR	10.5	315K	Ø	11,500	Ø	Ø
19		55.5	7	12.25	3	NR	10.5	315K	12,415	Ø	Ø	Ø
20		55.25	7	12	3	NR	11	330K	24,902	16,100	Ø	Ø
21		53.75	7	11.75	3	NR	10	300K	12,336	Ø	Ø	Ø
22		54	7	12	3	NR	10	300K	25,032	Ø	Ø	Ø
23		54	7	12	3	NR	9	270K	Ø	Ø	Ø	Ø
24		NR	18	NR	NR	NR	NR	NR	Ø	Ø	Ø	Ø
25		NR	NR	NR	NR	NR	NR	NR	Ø	Ø	Ø	
26		53	7	12	2.75	NR	10.5	315K	24,824	Ø	Ø	Ø
27		53.25	7	11.75	3	NR	10	300K	24,839	Ø	Ø	Ø
28		52.5	21	21.25	3	NR	8	240K	Ø	Ø	Ø	Ø
29		51.5	7	12	3	NR	8.5	255K	Ø	Ø	Ø	Ø
30		52	7	12	3	NR	10	300K	Ø	Ø	Ø	Ø
31		NR	NR	NR	NR	NR	NR	NR	Ø	Ø	Ø	.5
Leachate Hauled Subtotal												

(1) If depth is greater than 24 inches (2.0 feet): Contact Supervisor immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

Leachate Hauled Month Total: \_\_\_\_\_

Prepared by: W. Matthews

EFFLUENT DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) Dec. 95

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time, at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)
				Contractor (gallons)	County (gallons)				
1	29	60,000	42,900	12,200	Ø	Ø	17,100	—	N
2	27	60,000	42,900	55,654	Ø	Ø	17,100	—	N
3	NR	60,000	Ø	Ø	Ø	Ø	60,000	—	—
4	28	60,000	42,900	36,887	Ø	8,500	17,100	—	N
5	25	60,630	42,900	30,887	Ø	8,500	17,730	—	N
6	30	60,100	42,900	12,300	Ø	8,500	17,200	—	N
7	25	60,290	Ø	12,300	Ø	Ø	60,290	—	—
8	29	60,230	30,450	61,670	Ø	17,000	29,780	—	N
9	29	60,620	Ø	61,982	Ø	17,000	60,620	—	—
10	NR	60,000	Ø	Ø	Ø	Ø	60,000	—	—
11	44	60,340	42,900	43,236	Ø	Ø	17,440	—	N
12	36	60,200	10,525	24,661	Ø	17,000	49,675	—	N
13	31	60,250	Ø	Ø	Ø	17,000	60,250	—	—
14	31	60,250	Ø	Ø	Ø	26,000	60,250	—	—
15	27	60,250	Ø	61,782	Ø	8,500	60,250	—	—
16	27	60,300	Ø	61,970	Ø	8,500	60,300	—	—

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: Dec. 13, 14, 15, 16 - No Effluent Sprayed due To Electrical Problems

Prepared by: M. Hattland

EFFLUENT DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL  
(Month/Year) Dec. 95

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)
				Contractor (gallons)	County (gallons)				
17	NR	60,050	Ø	Ø	Ø	Ø	60,050	-	-
18	42	60,150	12,000	62,043	Ø	Ø	48,150	-	N
19	42	60,100	20,210	49,602	Ø	Ø	39,890	-	N
20	42	60,250	30,580	36,974	Ø	8500	29,670	-	N
21	41	60,250	30,000	49,472	Ø	17,000	36,250	-	N
22	38	60,110	30,000	36,949	Ø	Ø	30,110	-	N
23	41	60,310	30,000	62,146	Ø	17,000	30,310	-	N
24	NR	60,080	30,000	61,500	Ø	Ø	30,080	-	N
25	NR	60,220	30,000	Ø	Ø	Ø	30,220	-	N
26	40	60,180	30,020	37,025	Ø	8,500	30,160	-	N
27	39	60,200	30,000	36,945	Ø	8,500	30,200	-	N
28	41	60,160	45,000	37,268	Ø	Ø	15,160	-	N
29	40	60,190	45,000	37,290	Ø	8,500	15,190	-	N
30	36	60,350	Ø	67,600	Ø	Ø	60,350	-	-
31	NR	60,040	Ø	61,500	Ø	Ø	60,040	-	-

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Prepared by: M. Matthews



DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL  
(Month/Year) Dec 95

Action	Date															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>Piezometer Phase IV</b>																
Low Level Operation, depth less than or equal to 12 inches.																
Normal Operation, depth greater than 12 inches and less than or equal to 24 inches.																
High Level Operation, depth greater than 24 inches and less than or equal to 30 inches. Increase leachate removal and contact supervisor immediately.	✓	✓	NR	✓	✓	✓	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓
<b>Sump No. 4 Phase VI (Stormwater)</b>																
Normal Operation, level is greater than or equal to 6 inches above level measured in Phase IV piezometer.	✓	✓	NR	✓	✓	✓	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
If level is more than 6 inches below the level measure in Phase IV piezometer, stop pumping to Basin D.																
<b>5,000 Gallon Tank at LTRF</b>																
Normal Operation.	✓	✓	NR		✓	✓	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓
If level is greater than 11 feet, increase treatment, hauling, or recirculation.				✓												
If level is less than 6 feet, decrease or stop hauling, recirculation.																
<b>Effluent Pond</b>																
Normal Operation.	✓	✓	NR	✓	✓	✓	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓
If level is 6 inches or less, stop irrigation, recirculation, hauling.																
If level is greater than 4 feet, increase irrigation, recirculation, hauling.																
<b>Observed runoff of effluent to stormwater basins?</b>																
No.	✓	✓	NR	✓	✓	✓	NR	✓	NR	NR	✓	✓	✓	✓	✓	✓
If yes, contact supervisor immediately. Stop spray irrigation. Identify Basin and type.																
Runoff Type																
To Basin																
1 = Severe																
2 = Moderate																
3 = Minor																

Comments/Remedial Action: \_\_\_\_\_

Prepared by H. Matthews

**DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL  
(Month/Year) Dec. 95**

Action	Date														
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<b>Piezometer Phase IV</b>															
Low Level Operation, depth less than or equal to 12 inches.															
Normal Operation, depth greater than 12 inches and less than or equal to 24 inches.															
High Level Operation, depth greater than 24 inches and less than or equal to 30 inches. Increase leachate removal and contact supervisor immediately.	NR	✓	✓	✓	✓	✓	✓	NR	NR	✓	✓	✓	✓	✓	NR
<b>Sump No. 4 Phase VI (Stormwater)</b>															
Normal Operation, level is greater than or equal to 6 inches above level measured in Phase IV piezometer.	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
If level is more than 6 inches below the level measure in Phase IV piezometer, stop pumping to Basin D.															
<b>5,000 Gallon Tank at LTRF</b>															
Normal Operation.	NR	✓	✓	✓	✓	✓	✓	NR	NR	✓	✓	✓	✓	✓	NR
If level is greater than 11 feet, increase treatment, hauling, or recirculation.															
If level is less than 6 feet, decrease or stop hauling, recirculation.															
<b>Effluent Pond</b>															
Normal Operation.	NR	✓	✓	✓	✓	✓	✓	NR	NR	✓	✓	✓	✓	✓	NR
If level is 6 inches or less, stop irrigation, recirculation, hauling.															
If level is greater than 4 feet, increase irrigation, recirculation, hauling.															
<b>Observed runoff of effluent to stormwater basins?</b>															
No.	NR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	NR
If yes, contact supervisor immediately. Stop spray irrigation. Identify Basin and type.															
Runoff Type															
1 = Severe															
2 = Moderate															
3 = Minor															
To Basin A, B, C, D															

Comments/Remedial Action: \_\_\_\_\_

Prepared by

M. Matthews

**1995 LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
January	4.60	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
February	2.40	4,063,000	2,942,000	(1) 0	0	0	650,000	4,063,000	4,062,000	1,000
March	1.90	3,467,000	2,320,000	(1) 0	0	113,000	932,000	3,467,000	3,705,000	(238,000)
April	1.60	2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,528,000	97,000
May	2.40	2,331,000	865,725	652,689	0	0	1,000,270	2,331,000	2,255,439	75,561
June	8.30	2,369,000	904,543	758,000	0	0	568,520	2,369,000	2,252,277	116,723
July	17.90	2,296,000	845,087	1,185,000	0	0	319,750	2,296,000	2,236,821	59,179
August	15.80	2,940,000	1,620,842	1,050,000	0	0	398,520	2,940,000	2,997,072	(57,072)
September	8.80	2,939,000	1,696,897	783,000	0	25,500	507,500	2,939,000	3,168,909	(229,909)
October	5.40	3,130,000	972,984	865,000	0	76,500	600,480	3,130,000	2,763,129	366,871
November	4.30	2,539,360	699,787	1,016,000	0	17,000	785,275	2,539,360	2,465,827	73,533
December	0.50	2,570,333	525,473	1,113,000	0	173,900	661,185	2,570,333	2,391,573	178,760
YTD Total	73.90	34,373,693	17,683,338	7,815,689	60,000	405,900	7,123,500	34,373,693	33,992,047	

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Notes:

1. Effluent quantities not measured separately.

**SOUTHEAST LANDFILL  
TEMPORARY PUMP STATION NO. 5 CONTROL WELL  
DECEMBER 1995**

DAY	DEPTH (Inches)
1	well purged
2	NR
3	NR
4	20.04
5	25.50
6	25.00
7	25.50
8	23.50
9	24.00
10	NR
11	23.50
12	23.50
13	23.00
14	25.50
15	24.25
16	24.00
17	NR
18	24.00
19	24.00
20	23.75
21	23.75
22	24.00
23	23.00
24	NR
25	NR
26	23.00
27	23.75
28	32.25
29	25.25
30	24.00
31	NR

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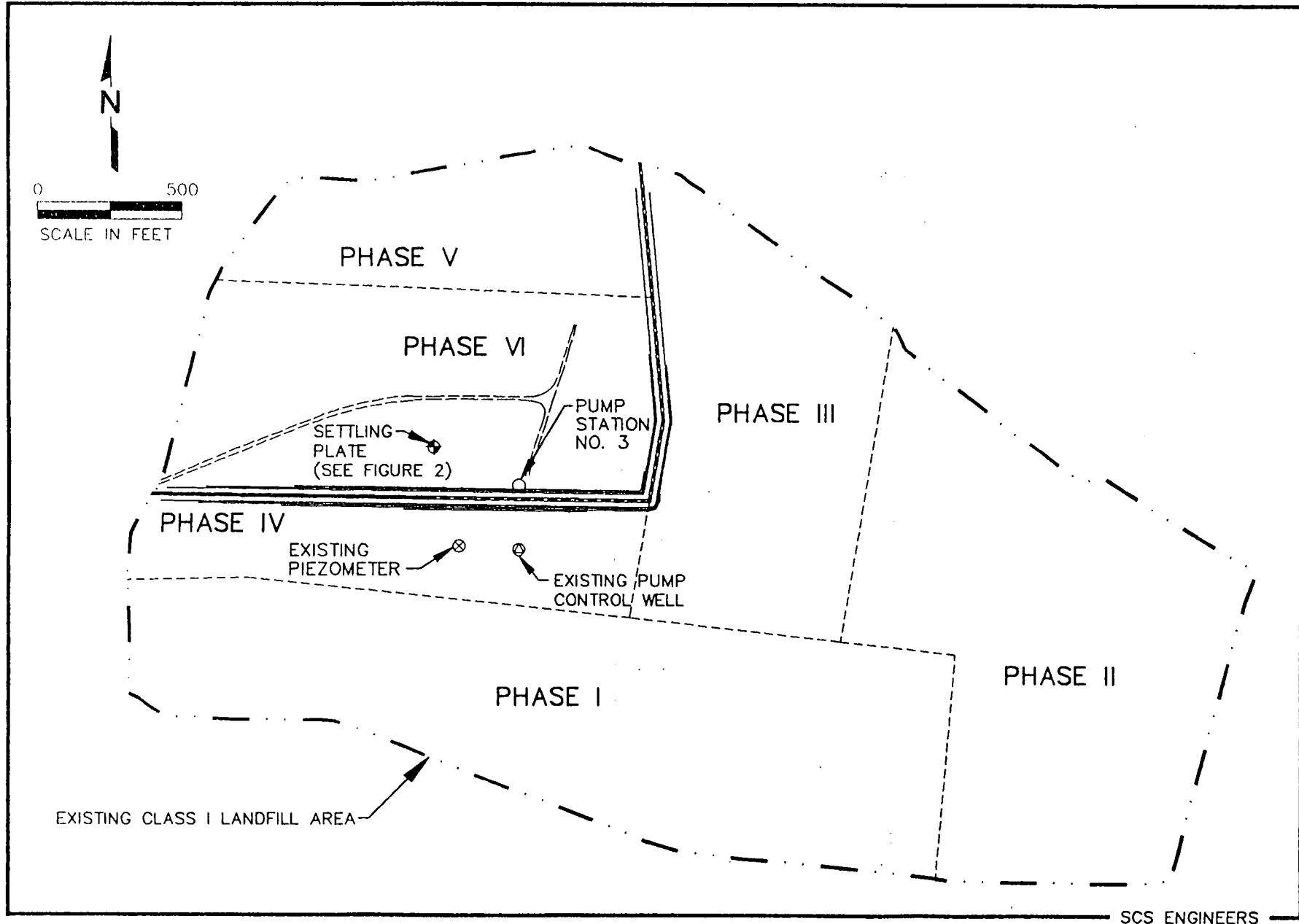


Figure 1. As-Built Phase VI Settling Plate Location.

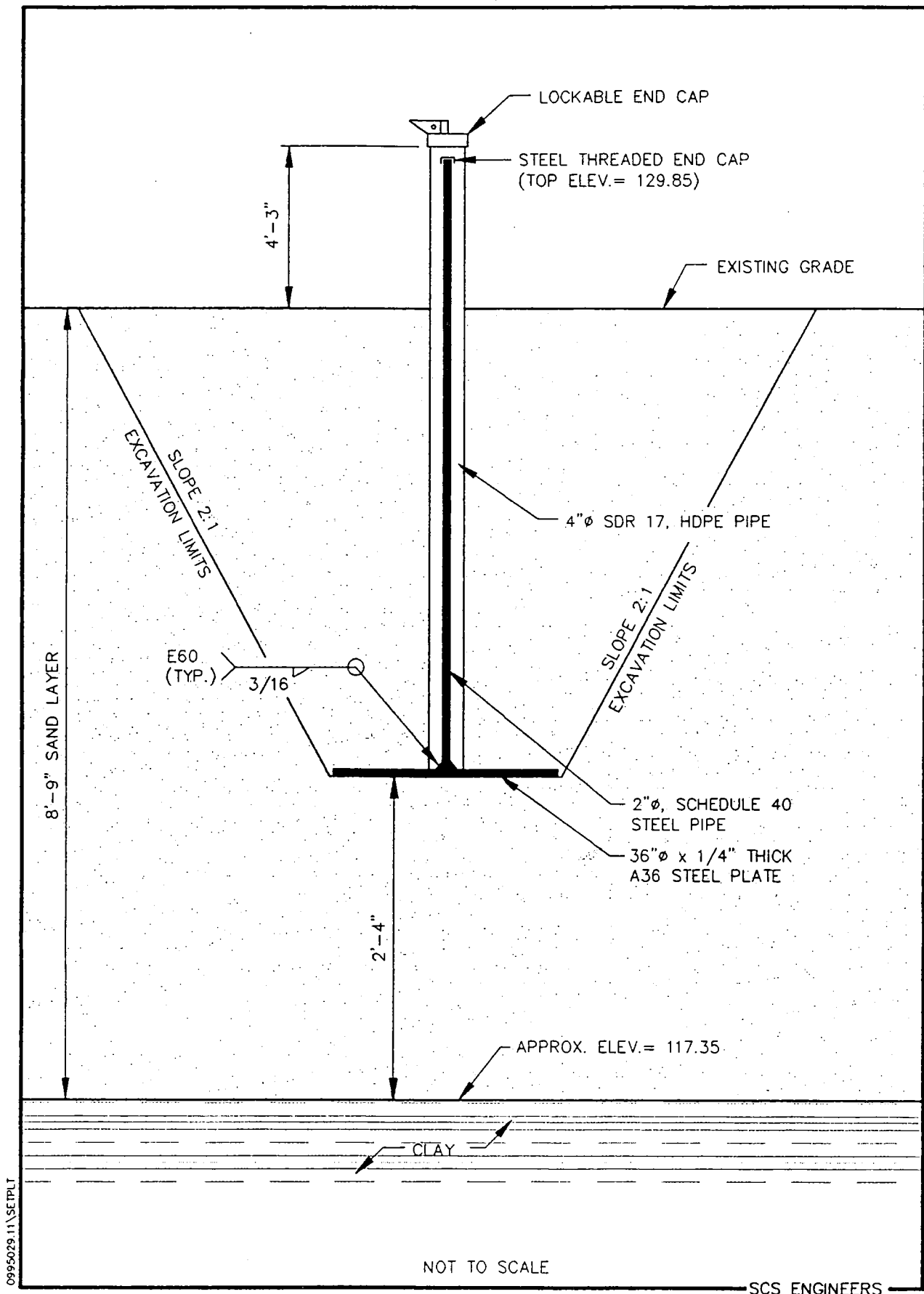


Figure 2. As-Built Phase VI Settlement Monitoring Plate Detail.

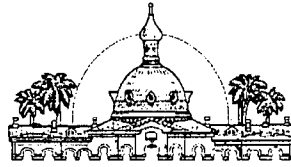
# HILLSBOROUGH COUNTY

Florida

Office of the County Administrator  
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger  
Phyllis Busansky  
Joe Chillura  
Chris Hart  
Jim Norman  
Ed Turanchik  
Sandra Helen Wilson



December 5, 1995

Senior Assistant County Administrator  
Patricia Bean

Assistant County Administrators  
Edwin Hunzeker  
Cretta Johnson  
Jimmie Keel  
Robert Taylor

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**RECEIVED**  
DEC - 8 1995

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the month of November 1995. In addition, the DSW is providing the November 1995 field data forms for the Landfill, the daily leachate and collection system evaluation reports, and the Year-to-Date Leachate Balance Summary. In addition, the DSW is providing a new clay elevation form, survey data form, and a table showing the up-to-date leachate level readings at the recently constructed pump control well.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

Please advise should you have any questions or require additional information at this time.

Sincerely,

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

Attachments

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

**SCS ENGINEERS**

December 5, 1995  
File No. 0995029.11

Ms. Patricia V. Berry  
Hillsborough County  
Department of Solid Waste  
P. O. Box 1110  
Tampa, Florida 33601



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Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

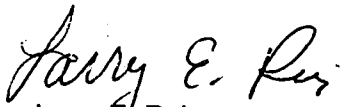
Subject: November 1995, Leachate Water Balance Report Forms  
Southeast County Landfill, Hillsborough County, Florida


Dear Patty:

Please find attached copies of the leachate water balance report forms for the month of November 1995, and the year to date summary. Also find attached the approximate top clay elevations tracking form, survey data form, and a table showing the up-to-date leachate level readings at the proposed pump control well. The leachate water balance forms were created from data provided by Mr. Matt Matthews from the Hillsborough County Department of Solid Waste and were revised to include metered leachate removal quantities and separate quantities for temporary pump station No. 3 and No. 5.

If you have any questions, please do not hesitate to call.

Very truly yours,

  
Larry E. Ruiz  
Senior Project Engineer

  
Robert B. Gardner, P.E.  
Vice President  
SCS ENGINEERS

RBG/LER:ler  
Enclosures

cc: Matt Matthews





**1995 YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan	4.60	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
Feb	2.40	4,063,000	2,942,000	(1) 0	0	0	650,000	4,063,000	4,062,000	1,000
March	1.90	3,467,000	2,320,000	(1) 0	0	113,000	932,000	3,467,000	3,705,000	(238,000)
April	1.60	2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,528,000	97,000
May	2.40	2,331,000	865,725	652,689	0	0	1,000,270	2,331,000	2,255,439	75,561
June	8.30	2,369,000	904,543	758,000	0	0	568,520	2,369,000	2,252,277	116,723
July	17.90	2,296,000	845,087	1,185,000	0	0	319,750	2,296,000	2,236,821	59,179
August	15.80	2,940,000	1,620,842	1,050,000	0	0	398,520	2,940,000	2,997,072	(57,072)
September	8.80	2,939,000	1,696,897	783,000	0	25,500	507,500	2,939,000	3,168,909	(229,909)
October	5.40	3,130,000	972,984	865,000	0	76,500	600,480	3,130,000	2,763,129	366,871
November	4.30	2,539,360	699,787	1,016,000	0	17,000	785,275	2,539,360	2,465,827	73,533
YTD Total	73.40	31,803,360	17,157,865	6,702,689	60,000	232,000	6,462,315	31,803,360	31,600,474	202,886

Notes:

1. Effluent quantities not measured separately.
2. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

**LEACHATE WATER BALANCE REPORT FORM  
NOVEMBER 1995**

**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA**

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII
Day	Area (acres)		int.	Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Pumped From Sta. No 3 (gal.)	Pumped From Sta. No. 5 (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
	final	active																	
1	23.2	5.0	92.2	1.9	34.0	59.0	10,112,000	72,360	0	72,360	144,000	44,640	0	0	109,000	42,900	8,500	37,000	42,000
2	23.2	5.0	92.2	0.0	36.0	58.0	9,649,000	76,570	15,430	92,000	202,000	60,130	0	0	116,000	0	0	37,000	0
3	23.2	5.0	92.2	0.0	37.0	59.0	10,112,000	83,400	0	83,400	202,000	60,040	18,647	0	120,000	42,900	0	43,000	35,000
4	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	76,500	0	76,500	259,000	60,150	0	0	75,000	42,900	0	31,000	35,000
5	23.2	5.0	92.2	0.0	NR	NR	NR	76,500	0	76,500	NR	59,900	0	0	NR	0	0	0	0
6	23.2	5.0	92.2	0.0	42.0	59.0	10,112,000	71,390	12,010	83,400	288,000	42,810	50,335	0	138,000	42,900	0	31,000	35,000
7	23.2	5.0	92.2	0.0	36.0	59.0	10,112,000	60,370	25,230	85,600	259,000	60,590	31,070	0	116,000	42,900	0	31,000	35,000
8	23.2	5.0	92.2	0.4	24.0	58.0	9,649,000	58,210	19,990	78,200	259,000	55,020	19,199	0	75,000	0	0	68,000	0
9	23.2	5.0	92.2	1.5	31.0	59.0	10,112,000	62,640	16,860	79,500	259,000	60,030	6,144	0	99,000	0	0	63,000	0
10	23.2	5.0	92.2	0.0	35.0	58.0	9,649,000	57,890	18,710	76,600	288,000	60,000	37,366	0	113,000	0	0	25,000	0
11	23.2	5.0	92.2	0.0	31.0	59.0	10,112,000	66,530	21,170	87,700	274,000	60,110	0	0	99,000	0	0	62,000	0
12	23.2	5.0	92.2	0.0	NR	NR	NR	66,530	21,170	87,700	NR	59,940	0	0	NR	0	0	0	0
13	23.2	5.0	92.2	0.0	40.0	60.0	10,576,000	66,020	25,980	92,000	317,000	60,000	18,633	0	131,000	42,900	0	62,000	35,000
14	23.2	5.0	92.2	0.0	30.0	59.0	10,112,000	49,650	29,550	79,200	317,000	59,920	12,700	0	95,000	42,900	0	62,000	35,000
15	23.2	5.0	92.2	0.0	24.0	56.0	8,721,000	45,680	29,020	74,700	374,000	59,010	55,288	0	75,000	42,900	0	25,000	35,000
16	23.2	5.0	92.2	0.0	26.0	56.0	8,721,000	60,050	16,050	76,100	331,000	60,390	61,798	0	81,000	40,000	0	13,000	32,000
17	23.2	5.0	92.2	0.0	25.0	56.0	8,721,000	7,780	83,320	91,100	302,000	61,000	37,257	0	78,000	42,900	0	6,000	35,000
18	23.2	5.0	92.2	0.0	27.0	57.0	9,185,000	75,550	0	75,550	302,000	60,340	0	0	85,000	0	0	37,000	0
19	23.2	5.0	92.2	Trace	NR	NR	NR	75,550	0	75,550	NR	59,580	0	0	NR	0	0	0	0
20	23.2	5.0	92.2	0.0	46.0	57.0	9,185,000	82,000	0	82,000	345,000	60,320	28,930	0	154,000	46,000	0	62,000	37,000
21	23.2	5.0	92.2	0.0	33.0	57.0	9,185,000	52,160	26,540	78,700	259,000	60,190	31,093	0	106,000	44,000	8,500	43,000	42,000
22	23.2	5.0	92.2	0.0	27.0	56.0	8,721,000	17,440	75,810	93,250	317,000	60,300	72,861	0	85,000	39,200	0	12,000	32,000
23	23.2	5.0	92.2	0.0	NR	NR	NR	17,440	75,810	93,250	NR	60,330	18,600	0	NR	32,175	0	19,000	26,000
24	23.2	5.0	92.2	0.0	30.0	57.0	9,185,000	15,230	68,470	83,700	302,000	60,480	25,163	0	95,000	49,300	0	12,000	40,000
25	23.2	5.0	92.2	0.0	28.0	57.0	9,185,000	0	102,150	102,150	317,000	60,260	0	0	88,000	0	0	56,000	0
26	23.2	5.0	92.2	0.0	NR	NR	NR	0	102,150	102,150	NR	59,750	0	0	NR	0	0	0	0
27	23.2	5.0	92.2	0.0	28.0	56.0	8,721,000	0	86,300	86,300	374,000	60,190	56,487	0	88,000	51,000	0	37,000	41,000
28	23.2	5.0	92.2	0.0	32.0	56.5	8,953,000	0	93,600	93,600	345,000	60,210	43,477	0	102,000	46,500	0	61,000	38,000
29	23.2	5.0	92.2	0.3	30.0	56.0	8,721,000	0	93,300	93,300	331,000	60,200	31,332	0	95,000	0	0	56,000	0
30	23.2	5.0	92.2	0.2	28.0	57.0	9,185,000	0	87,300	87,300	331,000	60,210	43,407	0	88,000	51,000	0	25,000	41,000
Total				4.30	784.0	1440.5	236,808,000	1,393,440	1,145,920	2,539,360	7,298,000	1,766,040	699,787	0	2,506,000	785,275	17,000	1,016,000	651,000
Average				0.15	31.4	57.6	9,472,000	46,000	38,000	85,000	243,000	59,000	35,000	0	100,000	44,000	9,000	39,000	36,000

## Notes:

- NR = No Records.
- Column II, total area with waste is 120.4 acres (Phases I-IV).
- Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
- Column V, estimated from depth in Phase IV Piezometer.
- Column VI, estimated from Column V and approximate volume with top of clay elevation at 117.0 feet.
- Column VII calculated based on average 180 gpm and hour conversion.
- Column VIII calculated by subtracting VII from flow meter reading.
- Column IX, quantity from flow meter.
- Column X, calculated from depth in 500,000 gal. leachate tank.
- Columns XI and XV, quantities from flow meters.
- Columns XII, XIII, XVI, and XVII, quantities calculated from truck weight.
- Column XVIII, 80.8% of the daily values from Columns XIII, XV and XVI.
- Values in italic are substitute for missing data and are based on averaged values.

11-95BAL.WB2 Revised by BLJ 12/4/95

**FIELD DATA ENTRY FORM**  
**NOVEMBER 1995**  
**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	Active Area (ac.)	Depth in Effl. Pond (in.)	Stormwater In Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Hauled		Leachate Recirc. (gal.)	Effluent Hauled		Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)	Pumped to LTRF Reading (gal.)	Sta. No. 3 Reading (hours)
1	5.0	34.0	75.0	3.0	16.0	59.0	1.9	0	0	0	37,395	0	8,500	44,640	42,900	5.0	(6,360)	2,972.95
2	5.0	36.0	74.0	4.0	15.0	58.0	0.0	0	0	0	37,456	0	0	60,130	0	7.0	66,000	2,979.65
3	5.0	37.0	74.0	3.0	15.0	59.0	0.0	18,647	0	0	43,437	0	0	60,040	42,900	7.0	158,000	2,986.74
4	5.0	24.0	72.0	3.0	17.0	59.0	0.0	0	0	0	30,853	0	0	60,150	42,900	9.0	241,400	2,994.38
5	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	59,900	0	NR	317,900	3,001.33
6	5.0	42.0	72.0	6.0	22.0	59.0	0.0	31,168	19,167	0	30,734	0	0	42,810	42,900	10.0	394,400	3,008.28
7	5.0	36.0	71.0	3.0	13.0	59.0	0.0	31,070	0	0	30,742	0	0	60,590	42,900	9.0	477,800	3,014.89
8	5.0	24.0	84.0	4.0	16.0	58.0	0.4	0	19,199	0	68,075	0	0	55,020	0	9.0	563,400	3,020.48
9	5.0	31.0	78.0	5.0	16.0	59.0	1.5	6,144	0	0	63,038	0	0	60,030	0	9.0	641,600	3,025.87
10	5.0	35.0	78.0	5.0	15.0	58.0	0.0	37,366	0	0	24,642	0	0	60,000	0	10.0	721,100	3,031.67
11	5.0	31.0	76.0	6.0	21.0	59.0	0.0	0	0	0	61,894	0	0	60,110	0	9.5	797,700	3,037.0
12	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	59,940	0	NR	885,400	3,043.19
13	5.0	40.0	76.0	7.0	16.0	60.0	0.0	18,633	0	0	62,090	0	0	60,000	42,900	11.0	973,100	3,049.35
14	5.0	30.0	76.0	6.0	15.0	59.0	0.0	12,700	0	0	61,906	0	0	59,920	42,900	11.0	1,065,100	3,055.46
15	5.0	24.0	74.0	6.0	15.0	56.0	0.0	49,788	5,500	0	24,600	0	0	59,010	42,900	13.0	1,144,300	3,060.06
16	5.0	26.0	74.0	4.0	15.0	56.0	0.0	61,798	0	0	12,530	0	0	60,390	40,000	11.5	1,219,000	3,064.29
17	5.0	25.0	73.0	3.0	15.0	56.0	0.0	31,257	6,000	0	6,200	0	0	61,000	42,900	10.5	1,295,100	3,069.85
18	5.0	27.0	73.0	3.0	17.0	57.0	0.0	0	0	0	37,425	0	0	60,340	0	10.5	1,386,200	3,070.57
19	5.0	NR	NR	NR	NR	NR	Trace	0	0	0	0	0	0	59,580	0	NR	1,461,750	3,077.51
20	5.0	46.0	77.0	4.0	15.0	57.0	0.0	12,430	16,500	0	62,144	0	0	60,320	46,000	12.0	1,537,300	3,084.44
21	5.0	33.0	73.0	5.0	15.0	57.0	0.0	31,093	0	0	43,241	0	8,500	60,190	44,000	9.0	1,619,300	3,091.30
22	5.0	27.0	72.0	7.0	17.0	56.0	0.0	61,861	11,000	0	12,300	0	0	60,300	39,200	11.0	1,698,000	3,096.13
23	5.0	NR	NR	NR	NR	NR	0.0	18,600	0	0	18,600	0	0	60,330	32,175	NR	1,791,250	3,097.75
24	5.0	30.0	72.0	6.0	13.0	57.0	0.0	25,163	0	0	12,400	0	0	60,480	49,300	10.5	1,884,500	3,099.36
25	5.0	28.0	71.0	4.0	13.0	57.0	0.0	0	0	0	55,895	0	0	60,260	0	11.0	1,968,200	3,100.77
26	5.0	NR	NR	NR	NR	NR	0.0	0	0	0	0	0	0	59,750	0	NR	2,070,350	3,100.77
27	5.0	28.0	70.0	5.0	13.0	56.0	0.0	37,257	19,230	0	37,122	0	0	60,190	51,000	13.0	2,172,500	3,100.77
28	5.0	32.0	70.0	4.0	12.0	56.5	0.0	43,477	0	0	60,815	0	0	60,210	46,500	12.0	2,258,800	3,100.77
29	5.0	30.0	82.0	4.0	9.0	56.0	0.3	12,215	19,117	0	55,846	0	0	60,200	0	11.5	2,352,400	3,100.77
30	5.0	28.0	80.0	3.0	13.0	57.0	0.2	43,407	0	0	24,600	0	0	60,210	51,000	11.5	2,445,700	3,100.77

**Notes:**

1. NR = No Records.
2. Columns II-VIII, field measured. Column VIII, Trace is less than 0.01 inches.
3. Column VI, if level exceeds 24 inches, leachate withdrawal from landfill must increase.
4. Column VII, Phase IV piezometer began monitoring on 7/10/95.
5. Columns IX-XIV, quantities calculated from truck weight.
6. Columns XV and XVI, quantities from flow meters.
7. Column XVII, field measured.
8. Column XVIII, reading from flow meter.
9. Column XIX, Hour reading from TPS-3.
10. Values in italic are substitute for missing data and are based on averaged values.

**APPROXIMATE TOP OF CLAY ELEVATIONS**  
**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

[illegible]

**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

[illegible]

**SOUTHEAST LANDFILL  
PUMP WELL LEVEL MONITORING**

DATE	TIME	READING (Feet)	DEPTH (Feet)
November 21, 1995	1:10 p.m.	25.8	Dry
	3:30 p.m.	22.2	3.3
	4:15 p.m.	22.37	3.13
	9:00 p.m.	22.9	2.6
November 22, 1995	3:00 a.m.	22.75	2.75
	1:00 p.m.	22.78	2.72
	3:45 p.m.	22.78	2.72
	5:00 p.m.	22.95	2.55
November 24, 1995	7:30 a.m.	23.20	2.30
November 25, 1995	7:30 a.m.	23.35	2.15
November 28, 1995	7:30 a.m.	23.35	2.15
November 29, 1995	7:30 a.m.	23.35	2.15
November 30, 1995	7:30 a.m.	23.35	2.15
December 1, 1995	well purged		
December 4, 1995	7:30 a.m.	23.83	1.7

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

(Month/Year) Nov 1995

Date	Active Area (acres)	(1) Phase IV Piezometer (inches)	Station No. 3 (inches)	Phase IV Riser (inches)	Phase III Riser (inches)	Station No. 4 (inches)	Depth In 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)
									Contractor (gallons)	County (gallons)		
1		59	12	16	3	75	5	150 K	—	Ø	—	1.9
2		58	12	15	4	74	7	210 K	—	Ø	—	.0
3		59	12	15	3	74	7	210 K	18,647	Ø	—	.0
4		59	12	17	3	72	9	270 K	—	Ø	—	.0
5		NR	NR	NR	NR	NR	NR	—	—	Ø	—	.0
6		59	12	22	6	72	10	300 K	31,168	19,167	—	.0
7		59	12	13	3	71	9	270 K	31,070	—	—	.0
8		58	12	16	4	84	9	270 K	—	19,199	—	.4
9		59	12	16	5	78	9	270 K	6,144	Ø	—	1.5
10		58	12	15	5	78	10	300 K	37,366	Ø	—	0
11		59	12	21	6	76	9.5	285 K	Ø	Ø	—	0
12		NR	NR	NR	NR	NR	NR	Ø	Ø	Ø	—	0
13		60	12	16	7	76	11	330 K	18,633	Ø	—	0
14		59	12	15	6	76	11	330 K	12,700	Ø	—	0
15		56	12	15	6	74	13	390 K	49,788	5,500	—	0
16		56	12	15	4	74	11.5	345 K	61,798	Ø	—	0
Leachate Hauled Subtotal												

(1) If depth is greater than 24 inches (2.0 feet): Contact Supervisor immediately. Complete Evaluation Report Form.

Comments: Contractor and County Trucks hauling Effluent due to Low Tank  
Depth and Increased Leachate Treated

Prepared by: M. Matthews

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

(Month/Year) Nov. 1995

Date	Active Area (acres)	(1) Phase IV Piezometer (inches)	Station No. 3 (inches)	Phase IV Riser (inches)	Phase III Riser (inches)	Station No. 4 (inches)	Depth in 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)
									Contractor (gallons)	County (gallons)		
17		56	12	15	3	73	10.5	315K	31,257	6,000	—	0
18		57	12	17	3	73	10.5	315K	Ø	Ø	—	0
19		NR							Ø	Ø	—	0
20		57	12	15	4	77	12	360K	12,430	16,500	—	0
21		57	12	15	5	73	9	270K	31,093	Ø	—	0
22		56	12	17	7	72	11	330K	61,861	11,000	—	0
23		NR	Holiday						18,600	Ø	—	0
24		57	12	13	6	72	10.5	315K	25,163	Ø	—	0
25		57	12	13	4	71	11	330K	Ø	Ø	—	0
26		NR	NR	NR	NR	NR	NR	NR	Ø	Ø	—	0
27		56	12	13	5	70	13	390K	37,257	19,230	—	0
28		56.5	12	12	4	70	12	360K	43,477	Ø	—	0
29		56	12	9	4	82	11.5	345K	12,215	19,117	—	.3
30		57	12	13	3	80	11.5	345K	43,407	Ø	—	.2
31		—	—	—	—	—	—	—	—	—	—	—
Leachate Hauled Subtotal												

(1) If depth is greater than 24 inches (2.0 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Leachate Hauled Month Total: \_\_\_\_\_

Prepared by: V. Matthews



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

(Month/Year) Nov. 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)
				Contractor (gallons)	County (gallons)				
1	34	44,640	42,900	37,395	—	8,500	1,740		N
2	36	60,130	—	37,456	—	0	60,130		—
3	37	60,040	42,900	43,437	—	0	17,140		N
4	24	60,150	42,900	30,853	—	0	17,250		N
5	NR	59,900	0	—	—	0	59,900		—
6	42	(EST) 42,810	42,900	30,734	—	0	—		N
7	36	60,590	42,900	30,742	—	0	17,690		N
8	24	55,020	—	68,075	—	0	55,020		—
9	31	60,030	—	63,038	—	0	60,030		—
10	35	60,000	—	24,642	—	0	60,000		—
11	31	60,110	—	61,894	—	0	60,110		—
12	40	59,940	—	0	—	0	59,940		
13	40	60,000	42,900	62,090	—	0	17,100		N
14	30	59,920	42,900	61,906	—	0	17,020		N
15	24	59,010	42,900	24,600	—	0	16,110		N
16	26	60,390	40,000	12,538	—	0	20,390		N

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: 11/2, 8, 9 - No Effluent Sprayed due To Rain

Prepared by: M. Matthews

**EFFLUENT DEPTH/QUANTITIES DATA FORM**  
**SOUTHEAST COUNTY LANDFILL**  
 (Month/Year) Nov. 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)
				Contractor (gallons)	County (gallons)				
17	25	61,000	42,900	6,200	—	Ø	18,100		N
18	27	60,340	—	37,425	—	Ø	60,340		—
19	NR	59,580	—	Ø	—	Ø	59,580		—
20	46	60,320	46,000	62,144	—	Ø	14,320		N
21	33	60,190	44,000	43,241	—	8500	16,190		N
22	27	60,300	39,200	12,300	—	Ø	21,100		N
23	NR	60,330	32,175	18,600	—	Ø	28,155		N
24	30	60,480	49,300	12,400	—	Ø	11,180		N
25	28	60,260	—	55,895	—	Ø	60,260		—
26	NR	59,750	—	Ø	—	Ø	59,750		—
27	28	60,190	51,000	37,122	—	Ø	9,190		N
28	32	60,210	46,500	30,815	—	Ø	13,710		N
29	30	60,200	—	55,846	—	Ø	60,200		—
30	28	60,210	51,000	24,600	—	Ø	9,210		N
31					—				

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Prepared by: M. Maubert

**DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT**

**SOUTHEAST COUNTY LANDFILL**

(Month/Year) November 1995

Action	Date															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>Piezometer Phase IV</b>																
Low Level Operation, depth less than or equal to 12 inches.																
Normal Operation, depth greater than 12 inches and less than or equal to 24 inches.																
High Level Operation, depth greater than 24 inches and less than or equal to 30 inches. Increase leachate removal and contact supervisor immediately.	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
<b>Sump No. 4 Phase VI (Stormwater)</b>																
Normal Operation, level is greater than or equal to 6 inches above level measured in Phase IV piezometer.	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
If level is more than 6 inches below the level measure in Phase IV piezometer, stop pumping to Basin D.																
<b>5,000 Gallon Tank at LTRF</b>																
Normal Operation.		✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓		
If level is greater than 11 feet, increase treatment, hauling, or recirculation.															✓	✓
If level is less than 6 feet, decrease or stop hauling, recirculation.	✓															
<b>Effluent Pond</b>																
Normal Operation.	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
If level is 6 inches or less, stop irrigation, recirculation, hauling.																
If level is greater than 4 feet, increase irrigation, recirculation, hauling.																
<b>Observed runoff of effluent to stormwater basins?</b>																
No.	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
If yes, contact supervisor immediately. Stop spray irrigation. Identify Basin and type.																
<u>Runoff Type</u>																
1 = Severe																
2 = Moderate																
3 = Minor																
<u>To Basin</u>																
A, B, C, D																

Comments/Remedial Action: \_\_\_\_\_

Prepared by: M. Matthews

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL  
(Month/Year) November 1995

Action	Date														
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<b>Piezometer Phase IV</b>															
Low Level Operation, depth less than or equal to 12 inches.															
Normal Operation, depth greater than 12 inches and less than or equal to 24 inches.															
High Level Operation, depth greater than 24 inches and less than or equal to 30 inches. Increase leachate removal and contact supervisor immediately.	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	
<b>Sump No. 4 Phase VI (Stormwater)</b>															
Normal Operation, level is greater than or equal to 6 inches above level measured in Phase IV piezometer.	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	
If level is more than 6 inches below the level measure in Phase IV piezometer, stop pumping to Basin D.															
<b>5,000 Gallon Tank at LTRF</b>															
Normal Operation.	✓	✓			✓	✓		✓	✓						
If level is greater than 11 feet, increase treatment, hauling, or recirculation.				✓							✓	✓	✓	✓	
If level is less than 6 feet, decrease or stop hauling, recirculation.															
<b>Effluent Pond</b>															
Normal Operation.	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	
If level is 6 inches or less, stop irrigation, recirculation, hauling.															
If level is greater than 4 feet, increase irrigation, recirculation, hauling.															
<b>Observed runoff of effluent to stormwater basins?</b>															
No.	✓	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	
If yes, contact supervisor immediately. Stop spray irrigation. Identify Basin and type. <b>Runoff Type</b> 1 = Severe 2 = Moderate 3 = Minor															
<b>To Basin</b> A, B, C, D															

Comments/Remedial Action: \_\_\_\_\_

Prepared by H. Matthews

COMMISSION

DOTTIE BERGER  
PHYLLIS BUSANSKY  
JOE CHILLURA  
CHRIS HART  
JIM NORMAN  
ED TURANCHIK  
SANDRA WILSON

EXECUTIVE DIRECTOR

ROGER P. STEWART



ADMINISTRATIVE OFFICES, LEGAL &  
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1900 - 9TH AVENUE  
TAMPA, FLORIDA 33605  
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AIR MANAGEMENT DIVISION  
TELEPHONE (813) 272-5530

WASTE MANAGEMENT DIVISION  
TELEPHONE (813) 272-5788

WETLANDS MANAGEMENT DIVISION  
TELEPHONE (813) 272-7104

MEMORANDUM

D.E.P.

DEC 13 1995

SOUTHWEST DISTRICT  
TAMPA

DATE: December 6, 1995

TO: Richard Garrity, PhD., FDEP Southwest District

THROUGH: <sup>H.B.</sup> Hooshang Boostani, P.E., Director, and <sup>P.S.</sup> Paul Schipfer, Assistant Director,  
EPC/HC, Waste Management Division

<sup>CJH</sup> FROM: Chuck Heintz, Hydrologist, EPC/HC, Waste Management Division

SUBJECT: LEACHATE MANAGEMENT ISSUES WORKSHOP (NOVEMBER 28, 1995)

Environmental Protection Commission (EPC) staff wish to thank you and your agency for inviting us to attend the Leachate Management Issues Workshop. Twelve (12) counties and two (2) private companies were in attendance at this informative workshop.

EPC staff commends Mr. Kim Ford, P.E., for the professionalism and leadership that he exhibited in chairing the workshop.

After attending this workshop, permittees should be better able to manage the leachate control systems at their facilities. Such a workshop is a good example of your agency's partnership with the community.

cjh/drc

xc: Bill Kutash, FDEP Southwest District  
Bob Butera, FDEP Southwest District  
Kim Ford, P.E., FDEP Southwest District

FDEP Survey - Leachate Management Workshop - NOV. 28, 1995

Name Bob Gardner (SCS Engineers)

County Representing Hillsborough County

Department \_\_\_\_\_

- (1) Was the length of time of the workshop appropriate for the subject matter covered?

*yes - 1 1/2 day is appropriate*

- (2) If too long or too short, what length of time do you think would have been adequate to cover the material? What length of time would you like future workshops to be?

- (3) Do you believe the information received will be helpful to you for future leachate management at your facility?

*yes*

- (4) Do you feel your questions were responded to appropriately?

*yes - although there appeared to be some reluctance by some parties to share openly because of perceived negative reactions by FDEP or pending permit matters.*

- (5) Are you interested in having sessions scheduled on various solid waste issues such as permitting, groundwater monitoring, cost estimates and other landfill operational procedures? Please suggest topics of interest.

*I'm not sure which issue would be best. I think the FDEP should assess where its having the most difficulties with Counties and focus on those problems*

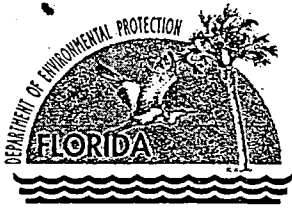
- (6) If your response to (5) was yes, should sessions for small or intermediate size counties be separate from sessions with the larger counties?

*No*

- (7) How often should any future sessions be scheduled? Check one:

Quarterly \_\_\_\_\_ Semi-annually ✓ Annually \_\_\_\_\_

Other \_\_\_\_\_ What timeframe? \_\_\_\_\_



# Department of Environmental Protection

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Virginia B. Wetherell  
Secretary

DEC 12 1995

Ms. Patricia Berry,  
Hillsborough County  
Solid Waste Management  
P. O. Box 1110  
Tampa, FL 33601

Re: Survey Request on Nov. 28th, 1995 Inter-governmental  
Meeting on Leachate Management

Dear Ms. Berry:

The Florida Department of Environmental Protection's Southwest District Solid Waste Section thanks you for attending the inter-governmental sharing meeting on Leachate Management on Tuesday, November 28, 1995. Due to unexpected personal reasons I was not able to attend but I have listened to the recordings of the session and have been updated by staff. The workshop appears to have been a success but I would like to get your input on the merits and shortcomings of this meeting and your ideas for sessions the Solid Waste Section may schedule in the future.

Attached is a survey that I would appreciate you responding to and forwarding to my attention by December 31, 1995. Signing of the survey is optional. This information will be helpful for planning purposes of any future workshops. The Solid Waste Section is always available for any questions you may have relating to the Solid Waste Regulations or technical guidance.

All members of the Solid Waste staff sincerely thank you for your time and participation at the November 28th meeting. If you have any other questions or comments you may contact me at (813) 744-6100, Ext. 451.

Sincerely,

Robert J. Butera, P.E.  
Solid Waste Manager  
Southwest District

Attachment

cc: Kim Ford, P.E.  
Bob Gardner, SCS Engineers  
Larry Ruiz, SCS Engineers


*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

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**FAX COVER**

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**TO:**

 **DATE:** November 10, 1995  
**NAME:** Kim Ford  
**ORGANIZATION:** FDEP  
**FAX NUMBER:** 813/744-6126  
**PHONE NUMBER:** 813/744-6100

---

**SCS ENGINEERS**  
Environmental Consultants      3012 U.S. Highway 301 North      Phone 813 621-0080  
Suite 700      FAX 813 623-6757  
Tampa, Florida 33619

**FROM:** Larry Ruiz  
**JOB NUMBER:** 0995029.11  
**NUMBER OF PAGES:** 4

**COMMENTS:**



**1995 YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan	4.80	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
Feb	2.40	4,063,000	2,842,000	(1) 0	0	0	650,000	4,063,000	4,062,000	1,000
March	1.90	3,467,000	2,320,000	(1) 0	0	113,000	932,000	3,467,000	3,705,000	(238,000)
April	1.60	2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,528,000	97,000
May	2.40	2,331,000	865,725	652,689	0	0	1,000,270	2,331,000	2,255,439	75,561
June	8.30	2,369,000	904,543	758,000	0	0	568,520	2,369,000	2,252,277	116,723
July	17.90	2,296,000	845,087	1,185,000	0	0	319,760	2,296,000	2,236,821	59,179
August	15.80	2,940,000	1,620,842	1,050,000	0	0	398,520	2,940,000	2,997,072	(57,072)
September	8.80	2,939,000	1,696,897	783,000	0	25,500	507,500	2,939,000	3,168,909	(229,909)
October	5.40	3,130,000	872,984	865,000	0	76,500	600,480	3,130,000	2,763,129	366,871
YTD Total	89.10	29,264,000	16,458,078	5,686,689	60,000	215,000	5,677,040	29,264,000	29,134,647	129,353

**Notes:**

1. Effluent quantities not measured separately.
2. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

## LEACHATE WATER BALANCE REPORT FORM

October 1995

## SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	NR	NR	NR	69,000	216,000	55,040	0	0	NR	0	0	0	0
2	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	132,000	230,000	55,100	62,047	0	75,000	42,900	17,000	18,000	48,000
3	23.2	5.0	92.2	0.1	24.0	60.0	10,576,000	83,000	202,000	55,305	66,928	0	75,000	42,900	0	18,000	35,000
4	23.2	5.0	92.2	0.6	26.0	81.0	11,039,000	68,000	202,000	55,200	12,431	0	81,000	0	0	68,000	0
5	23.2	5.0	92.2	0.2	25.0	60.0	10,576,000	125,000	259,000	55,405	12,295	0	78,000	0	0	62,000	0
6	23.2	5.0	92.2	1.8	26.0	60.0	10,576,000	61,000	259,000	54,820	6,000	0	81,000	0	0	74,000	0
7	23.2	5.0	92.2	1.0	25.0	60.0	10,576,000	84,000	288,000	55,630	0	0	78,000	0	0	37,000	0
8	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	54,920	0	0	NR	0	0	0	0
9	23.2	5.0	92.2	0.0	28.0	59.0	10,112,000	230,000	345,000	55,170	62,478	0	88,000	42,900	0	12,000	35,000
10	23.2	5.0	92.2	0.5	29.0	59.0	10,112,000	45,000	317,000	55,230	18,500	0	92,000	0	0	61,000	0
11	23.2	5.0	92.2	0.4	30.0	59.0	10,112,000	171,000	345,000	56,320	87,351	0	95,000	42,900	0	12,000	35,000
12	23.2	5.0	92.2	0.0	27.0	59.0	10,112,000	70,000	202,000	55,275	67,788	0	85,000	40,600	0	8,000	33,000
13	23.2	5.0	92.2	0.0	28.0	59.0	10,112,000	142,000	202,000	55,230	88,487	0	88,000	20,400	0	8,000	18,000
14	23.2	5.0	92.2	0.2	28.0	58.0	10,112,000	33,000	173,000	55,620	8,200	0	88,000	0	8500	74,000	7,000
15	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	59,970	0	0	NR	0	0	0	0
16	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	314,000	288,000	60,060	78,738	0	75,000	37,110	8500	12,000	37,000
17	23.2	5.0	92.2	0.0	27.0	59.0	10,112,000	70,000	173,000	60,370	0	0	85,000	0	0	38,000	0
18	23.2	5.0	92.2	0.0	30.0	59.0	10,112,000	128,000	230,000	52,850	17,200	0	95,000	0	8500	74,000	7,000
19	23.2	5.0	92.2	0.6	28.0	59.0	10,112,000	80,000	230,000	60,340	0	0	88,000	0	0	37,000	0
20	23.2	5.0	92.2	0.0	28.0	60.0	10,576,000	127,000	230,000	60,030	87,167	0	88,000	42,170	8500	19,000	41,000
21	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	31,000	202,000	60,110	0	0	75,000	0	0	56,000	0
22	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	59,840	0	0	NR	0	0	0	0
23	23.2	5.0	92.2	0.0	28.0	59.0	10,112,000	374,000	374,000	60,190	80,732	0	88,000	42,900	0	12,000	35,000
24	23.2	5.0	92.2	0.0	27.0	57.0	9,185,000	70,000	202,000	60,020	31,048	0	85,000	37,600	0	25,000	30,000
25	23.2	5.0	92.2	0.0	20.0	58.0	9,649,000	88,000	173,000	60,260	56,146	0	61,000	42,900	8500	25,000	42,000
26	23.2	5.0	92.2	0.0	27.0	57.0	9,185,000	118,000	173,000	59,720	55,983	0	85,000	42,000	0	19,000	34,000
27	23.2	5.0	92.2	0.0	24.0	56.0	8,721,000	50,000	144,000	60,080	18,897	0	75,000	36,000	0	25,000	29,000
28	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	63,000	144,000	62,900	0	0	75,000	0	0	31,000	0
29	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	59,480	0	0	NR	0	0	0	0
30	23.2	5.0	92.2	0.0	32.0	58.0	9,649,000	260,000	230,000	60,490	53,809	0	102,000	42,900	8500	25,000	42,000
31	23.2	5.0	92.2	0.0	30.0	58.0	9,649,000	68,000	173,000	60,170	24,981	0	95,000	44,300	8500	19,000	43,000
Total				5.40	693.0	1531.0	281,525,000	3,130,000	6,206,000	1,790,145	972,984	0	2,178,000	600,480	76,500	865,000	549,000
Average				0.17	26.7	58.9	10,059,000	101,000	200,000	58,000	46,000	0	84,000	40,000	10,000	33,000	32,000

10-95BALW52 Revised by RLC 11/8/95

## Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
4. Column V, estimated from depth in Phase IV Piezometer.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 117.0 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in italic are substitute for missing data and are based on averaged values.

**FIELD DATA ENTRY FORM**  
**October 1995**

**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII
Day	Active Area (ac.)	Depth in Effl. Pond (in.)	Stormwater In Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Contractor (gal.)	Hauled County (gal.)	Leachate Recirc. (gal.)	Effluent Contractor (gal.)	Hauled County (gal.)	Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
1	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55040.0	C.C	7.5
2	5.0	24.0	62.0	3.0	16.0	59.0	0.0	56047.0	6000.0	0.0	18400.0	0.0	17300.0	55100.0	42900.0	8.0
3	5.0	24.0	62.0	3.0	16.0	60.0	0.1	49484.0	17444.0	0.0	18325.0	0.0	0.0	55305.0	42900.0	7.0
4	5.0	26.0	64.0	3.0	16.0	61.0	0.6	6134.0	6297.0	0.0	67931.0	0.0	0.0	55200.0	0.0	7.0
5	5.0	25.0	NR	3.0	15.0	60.0	0.2	12295.0	0.0	0.0	61915.0	0.0	0.0	55405.0	0.0	8.0
6	5.0	26.0	NR	4.0	15.0	60.0	1.8	0.0	6000.0	0.0	74332.0	0.0	0.0	54820.0	0.0	9.0
7	5.0	25.0	NR	6.0	17.0	60.0	1.0	0.0	0.0	0.0	36744.0	0.0	0.0	55630.0	0.0	10.0
8	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54920.0	0.0	NR
9	5.0	25.0	53.0	3.0	16.0	59.0	0.0	62478.0	0.0	0.0	12222.0	0.0	0.0	55170.0	42900.0	12.0
10	5.0	29.0	71.0	3.0	19.0	59.0	0.5	18500.0	0.0	0.0	61366.0	0.0	0.0	55230.0	0.0	11.0
11	5.0	30.0	NR	7.0	16.0	59.0	0.4	88329.0	19022.0	0.0	12206.0	0.0	0.0	55320.0	42900.0	12.0
12	5.0	27.0	69.0	6.0	29.0	59.0	0.0	67786.0	0.0	0.0	6100.0	0.0	0.0	56270.0	40600.0	7.0
13	5.0	28.0	70.0	7.0	14.0	59.0	0.0	73932.0	12635.0	0.0	6100.0	0.0	0.0	55230.0	20400.0	7.0
14	5.0	28.0	70.0	3.0	16.0	59.0	0.2	6200.0	0.0	0.0	73928.0	0.0	8600.0	55620.0	0.0	6.0
15	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59970.0	0.0	NR
16	5.0	24.0	70.0	3.0	17.0	59.0	0.0	62038.0	16700.0	0.0	12300.0	0.0	8600.0	60060.0	37110.0	10.0
17	5.0	27.0	70.0	7.0	18.0	59.0	0.0	0.0	0.0	0.0	37525.0	0.0	0.0	60370.0	0.0	6.0
18	5.0	30.0	70.0	6.0	17.0	59.0	0.0	0.0	17200.0	0.0	74136.0	0.0	8500.0	52850.0	0.0	8.0
19	5.0	28.0	71.0	5.0	16.0	59.0	0.6	0.0	0.0	0.0	37409.0	0.0	0.0	60340.0	0.0	8.0
20	5.0	28.0	71.0	3.0	15.0	60.0	0.0	55667.0	11500.0	0.0	18612.0	0.0	8500.0	60030.0	42170.0	8.0
21	5.0	24.0	71.0	3.0	15.0	59.0	0.0	0.0	0.0	0.0	55734.0	0.0	0.0	60110.0	0.0	7.0
22	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59840.0	0.0	NR
23	5.0	28.0	69.0	4.0	15.0	59.0	0.0	61846.0	18886.0	0.0	12300.0	0.0	0.0	60190.0	42900.0	13.0
24	5.0	27.0	68.0	3.0	18.0	57.0	0.0	31048.0	0.0	0.0	24828.0	0.0	0.0	60020.0	37600.0	7.0
25	5.0	20.0	69.0	4.0	16.0	58.0	0.0	37167.0	18979.0	0.0	24600.0	0.0	8600.0	60260.0	42900.0	5.0
26	5.0	27.0	69.0	3.0	16.0	57.0	0.0	43330.0	12853.0	0.0	18500.0	0.0	0.0	59720.0	42000.0	6.0
27	5.0	24.0	60.0	3.0	15.0	56.0	0.0	12340.0	6357.0	0.0	24673.0	0.0	0.0	60080.0	36000.0	5.0
28	5.0	24.0	70.0	3.0	9.0	59.0	0.0	0.0	0.0	0.0	31168.0	0.0	0.0	62900.0	0.0	5.0
29	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59480.0	0.0	NR
30	5.0	32.0	68.0	5.0	16.0	58.0	0.0	37309.0	16500.0	0.0	24858.0	0.0	8500.0	60490.0	42900.0	8.0
31	5.0	30.0	59.0	4.0	17.0	58.0	0.0	24981.0	0.0	0.0	18500.0	0.0	8500.0	60170.0	44300.0	6.0

**Notes:**

1. NR = No Records.
2. Columns II-VIII, field measured. Column VIII, Trace is less than 0.01 inches.
3. Column VI, if level exceeds 24 inches, leachate withdrawal from landfill must increase.
4. Column VI, Phase IV piezometer began monitoring on 7/10/95.
5. Columns IX-XIV, quantities calculated from truck weight.
6. Columns XV and XVI, quantities from flow meters.
7. Column XVII, field measured.
8. Values in italic are substitute for missing data and are based on averaged values.



# Department of Environmental Protection

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Virginia B. Wetherell  
Secretary

Ms. Patricia Berry  
Hillsborough County  
Solid Waste Management  
P. O. Box 1110  
Tampa, FL 33601

NOV - 9 1995

Re: November 28, 1995 Intergovernmental Meeting to Discuss Leachate  
Management Issues

Dear Ms. Berry:

The Florida Department of Environmental Protection Southwest District Solid Waste Section would like to invite you to attend an intergovernmental information sharing meeting, discussing the issues of Leachate Quantity Reports submittals and current available off-site leachate disposal options.

The meeting will be held on Tuesday, November 28, 1995, from 10:00 A.M. to 2:30 P.M., at the Department's Southwest District office in Tampa.

This meeting will allow you a forum to freely discuss any questions you may have in regard to and identify ways you can use the reported leachate quantity data and will allow for an exchange of information on off-site leachate disposal options available and currently used. Attached is a summary of data reported this year, for your review.

## AGENDA

Leachate Quantity Reports (formats and uses)	10:00 - 11:30 A.M.
Off-site Leachate Disposal (options and limitations)	11:30 A.M. - 12:30 P.M.
Lunch Presentation (Hillsborough County Southeast Landfill)	12:30 - 1:30 P.M.
Wrap-up and Questions	1:30 - 2:30 P.M.

Lunch delivery will be available at a cost of \$3.50 per person to include a sandwich, chips, and a soft drink, or you may bring your own lunch. There will be space available in the meeting room to allow up to 3 persons per facility to attend. The Department suggests that at least one individual who is directly responsible for leachate management at the facility attend the meeting. Counties may choose to invite their consultant if they are responsible for compiling leachate data for the landfill.

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

*Printed on recycled paper.*

Mr. Wayne Hardee,  
Levy County

NOV - 9 1995

You are requested to contact me at (813) 744-6100, ext. 382, prior to November 22, 1995, confirming who from your organization will be attending the meeting or if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kim B. Ford'.

Kim B. Ford, P.E.  
Solid Waste Section  
Division of Waste Management

KBF/ab  
Attachment

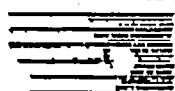
cc: Robert Butera, P.E., FDEP Tampa  
Susan Pelz, FDEP Tampa  
Matt Mathews, HCDSW  
Daryl Smith, HCDSW  
Paul Schipfer, HCEPC

## LEACHATE MANAGEMENT IN S.W. DISTRICT

Facility	Rainfall	# Days	Open Acres	Interm. Acres	Closed Acres	Collected	Leachate gal/acre/day	From	To
Citrus 7 Ac	27.2	180	0	0	7	206,595	164	1-Jan-95	30-Jun-95
Citrus Ex. Phs I	27.2	180	3	14	0	942,907	308	1-Jan-95	30-Jun-95
Desoto	33.2	180	4	4	0	1,609,268	1118	1-Jan-95	30-Jun-95
Hardee	24.3	180	9	5	0	3,995,220	1585	1-Jan-95	30-Jun-95
Hernando Croom	24.1	180	0	0	5	63,800	71	1-Jan-95	30-Jun-95
Hernando NW	34.0	180	6	0	0	1,533,300	1420	1-Jan-95	30-Jun-95
Hills DJJ	11.6	180	1	5	0	1,003,709	929	1-Jan-95	30-Jun-95
Hills. SE	21.2	180	5	92	23	17,872,000	827	1-Jan-95	30-Jun-95
Levy Area #1	38.0	180	0	3	0	160,490	297	1-Jan-95	30-Jun-95
Levy Area #2	38.0	180	3	0	0	996,125	1845	1-Jan-95	30-Jun-95
Levy Pond	38.0	180	1	0	0	1,031,791	5732	1-Jan-95	30-Jun-95
Manatee Stg I	17.5	180	6	113	0	52,495,162	2451	1-Jan-95	30-Jun-95
Manatee Stg III	17.5	180	0	71	0	21,517,427	1684	1-Jan-95	30-Jun-95
Manatee Pond	17.5	180	5	0	0	2,375,835	2640	1-Jan-95	30-Jun-95
Pasco East T1	20.3	180	0	0	7	99,800	79	1-Jan-95	30-Jun-95
Pasco East T2	20.3	180	0	0	7	129,600	103	1-Jan-95	30-Jun-95
Pasco East T3	20.3	180	0	0	5	7,000	8	1-Jan-95	30-Jun-95
Pasco East T4	20.3	180	0	6	5	36,000	18	1-Jan-95	30-Jun-95
Pasco East T5	20.3	180	2	4	0	680,800	630	1-Jan-95	30-Jun-95
Pasco West A1	26.9	180	8	0	0	3,130,029	2174	1-Jan-95	30-Jun-95
Pasco West Cls III	26.9	180	7	0	0	2,313,350	1836	1-Jan-95	30-Jun-95
Pin. 126th Ave.		180	12	0	0	0	0	1-Jan-95	30-Jun-95
Pin. Bridgeway Ac.	26.6	180	750	0	0	147,580,564	1093	1-Jan-95	30-Jun-95
Pin. Toytown	20.0	180	0	0	215	21,345,510	552	1-Jan-95	30-Jun-95
Polk NC	23.1	180	6	40	0	617,500	75	1-Jan-95	30-Jun-95
Polk NE	18.8	180	0	14	0	1,253,953	498	1-Jan-95	30-Jun-95
Polk SE	20.8	180	4	14	0	3,034,152	936	1-Jan-95	30-Jun-95
Sarasota B. R.	23.7	180	15	115	90	27,276,228	689	1-Jan-95	30-Jun-95

LEACHATE MANAGEMENT IN S.W. DISTRICT

Facility	Rainfall	# Days	Open Acres	Interm. Acres	Closed Acres	Collected	Leachate gal/acre/day	From	To
Citrus 7 Ac	27.2	92	0	0	7	67,022	104	1-Jul-95	30-Sep-95
Citrus Ex. Phs I	27.2	92	3	14	0	597,023	382	1-Jul-95	30-Sep-95
Desoto	37.3	92	4	4	0	2,316,000	3147	1-Jul-95	30-Sep-95
Hardee	31.7	92	9	5	0	2,794,569	2170	1-Jul-95	30-Sep-95
Hernando Croom	23.8	92	0	0	5	23,200	50	1-Jul-95	30-Sep-95
Hernando NW	18.5	92	6	0	0	1,251,600	2267	1-Jul-95	30-Sep-95
Hills DJJ	14.9	92	1	5	0	388,200	703	1-Jul-95	30-Sep-95
Hills. SE	42.5	92	5	92	23	8,175,000	740	1-Jul-95	30-Sep-95
Levy Area #1	19.6	92	0	3	0	129,173	468	1-Jul-95	30-Sep-95
Levy Area #2	19.6	92	3	0	0	623,850	2260	1-Jul-95	30-Sep-95
Levy Pond	19.6	92	1	0	0	532,187	5785	1-Jul-95	30-Sep-95
Manatee Stg I	34.0	92	6	113	0	32,856,807	3001	1-Jul-95	30-Sep-95
Manatee Stg III	34.0	92	0	71	0	14,388,424	2203	1-Jul-95	30-Sep-95
Manatee Pond	34.0	92	5	0	0	4,615,908	10035	1-Jul-95	30-Sep-95
Pasco East T1	32.4	92	0	0	7	80,800	125	1-Jul-95	30-Sep-95
Pasco East T2	32.4	92	0	0	7	138,550	215	1-Jul-95	30-Sep-95
Pasco East T3	32.4	92	0	0	5	15,100	33	1-Jul-95	30-Sep-95
Pasco East T4	32.4	92	0	6	5	39,900	39	1-Jul-95	30-Sep-95
Pasco East T5	32.4	92	2	4	0	704,908	1277	1-Jul-95	30-Sep-95
Pasco West A1	20.5	92	8	0	0	1,703,959	2315	1-Jul-95	30-Sep-95
Pasco West Cls III	26.3	92	7	0	0	2,188,300	3398	1-Jul-95	30-Sep-95
Pin. 126th Ave.		92	12	0	0	0	0	1-Jul-95	30-Sep-95
Pin. Bridgeway Ac.		92	750	0	0	0	0	1-Jul-95	30-Sep-95
Pin. Toytown	26.4	92	0	0	215	10,987,910	556	1-Jul-95	30-Sep-95
Polk NC	27.8	92	6	40	0	408,013	96	1-Jul-95	30-Sep-95
Polk NE	31.8	92	0	14	0	728,755	566	1-Jul-95	30-Sep-95
Polk SE	25.5	92	4	14	0	2,582,884	1560	1-Jul-95	30-Sep-95
Sarasota B. R.	36.5	92	15	115	90	15,654,008	773	1-Jul-95	30-Sep-95

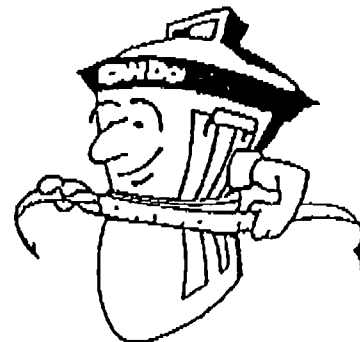


# Hillsborough County

Department of Solid Waste \* P.O. Box 1110  
Tampa, FL 33601

Sender's Telephone Number: 276-2908

24-Hour FAX Line — (813) 276-2960



"Together We CAN-DO It"

DATE: 11/9/95

TO: Bob Butera, DEP, Solid Waste

FAX: 744-6125 SUBJECT: SELF - Leachate Mgmt.

FROM: P.V. Berry, DSW

COMMENTS (If Any): I'm asked that I provide you with an  
update of the DSW's efforts at the SELF. SCS Engineers  
have a glitch in the Water Balance Computer program  
so they will be forwarding the October or  
November data to your office tomorrow.  
My hard copy to follow will have a complete  
package of the data with it. Hope to see you out  
at the site next week. P. Berry

Total Pages Sent (including cover sheet) 3

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Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services  
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# HILLSBOROUGH COUNTY

Florida

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November 9, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**RE: Southeast County Landfill - Leachate Management**

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the month of October 1995. In addition, the DSW is providing the October 1995 field data forms for the Landfill, the daily leachate and collection system evaluation reports, the treatment plant operator's form, and the Year-to-Date Leachate Balance Summary. As requested during our recent telephone conversation, the DSW is also providing the hand written data through November 8, 1995.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

As indicated on the Temporary Pump Station No. 5 drawings, the DSW intends to install a pump control well to include electrodes with cables to connect to the control panel for the new pump. The pump control well will be utilized to automate Temporary Pump Station No. 5 and allow it to cycle based on leachate flow rates. This well and controls will be utilized with the new pump and intrinsically safe control relay which are being purchased for Temporary Pump Station No. 5. Although the pump and control relay have not yet been purchased (as discussed in my November 1, 1995 letter), the DSW is proceeding with the construction of the pump control well. It is anticipated that the well construction will be scheduled for next Wednesday or Thursday, November 15 or 16, 1995. The DSW is inviting the DEP to visit the Landfill and observe the installation of this well and meet with the DSW and SCS Engineers to discuss the status of the County's leachate management efforts. Once a firm date and time is scheduled, the DSW will notify the DEP.

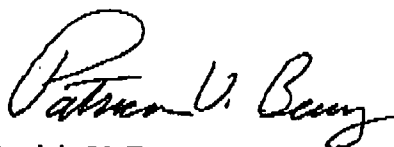
Mr. Kim Ford  
November 9, 1995  
Page Two

To clarify the DSW's November 1, 1995 correspondence referencing pumping limitations, the DSW offers the following information.

While the DSW has been working to purchase the pump and control panel designated for the Temporary Pump Station No. 5, the DSW has been utilizing pumps from the DSW's and County's pump inventory. During this process, several pumps have broken down, requiring the DSW to substitute pumps while the other pump was in the shop. However, even with the pump problems, the DSW has been pumping from Temporary Pump Station No. 5, in addition to continuing to pump from Pump Station No 3. Since the current system is not automated, Temporary Pump Station No. 5 is only being operated during daylight hours. However, Pump Station No. 3 operates around the clock removing leachate from the Landfill. As indicated in the DSW's November 1, 1995 letter, the DSW most recently attached a six inch pump to the system anticipating that the pump would be able to run continuously at an idle speed. However, due to the leachate flow rate within the collection system, the pump is also cycling and is unable to run 24 hours a day without being manned. The limitation referenced in the DSW's November 1, 1995 correspondence pertains to hours of pumping and pump breakdowns. With the installation of the new pump, control panel and pump control well, the system will be fully automated and will be able to operate 24 hours a day thereby removing leachate at a more constant rate.

Should the DEP have any other questions at this time, please advise. The DSW will notify the DEP of the upcoming well construction date once it is finalized.

Sincerely,



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

**Attachments**

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

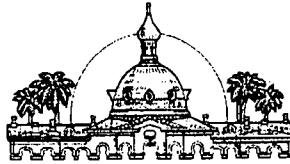
# HILLSBOROUGH COUNTY

Florida

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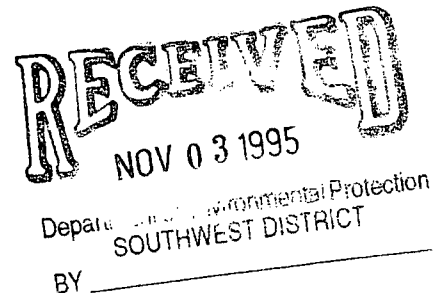


Senior Assistant County Administrator  
Patricia Bean

Assistant County Administrators  
Edwin Hunzeker  
Cretta Johnson  
Jimmie Keel  
Robert Taylor

November 1, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619



RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the month of September 1995. In addition, the DSW is providing the September 1995 field data forms for the Landfill, the daily leachate and collection system evaluation reports, and the treatment plant operator's form. The DSW is also providing 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 an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

In addition, the DSW is notifying the DEP that the purchase of the permanent pump for Temporary Pump Station No. V in Phase IV has been temporarily delayed due to problems in procurement of the specified equipment. In response to the County's bid advertisement to purchase the pump, no bids were received. The County's Purchasing Department is again attempting to seek bids. In the interim, however, the DSW is relocating the larger six inch pump from Phases V and VI to Pump Station No. V. The DSW will attempt to modify the pump with fittings and reducers to be able to connect to the four inch leachate line. Unfortunately, because of the pumping limitations during the past few months, it appears that the leachate level in the Phase IV piezometer has not yet been affected. If the connection of the six inch pump is successful, the DSW should be able to run this pump on continuous idle, resulting in greater leachate removal from Phase IV.

Mr. Kim Ford  
November 1, 1995  
Page Two

In addition, the Daily Leachate Collection and Recovery System Evaluation Report references that a header pipe broke resulting in a minor spray irrigation discharge on October 21, 1995. The DSW is providing the following information to explain the comment.

On September 21, 1995, an effluent irrigation lateral was damaged from landfilling activities resulting in a minor effluent discharge to land surface. Upon observing the damage to the lateral pipe, an employee immediately shut the irrigation system down and isolated the break from the active irrigation system. The leak duration was a few minutes.

The damage to the lateral pipe occurred on the west end of Phase I which is currently being landfilled. Approximately 200 gallons of effluent was discharged over the lined area of the landfill, with a portion of the effluent infiltrating into the cover soils of the landfill. A portion of the effluent also entered stormwater Basin A and infiltrated into the basin before it could be recovered.

The damaged lateral is still disconnected from the active spray irrigation system and will be repaired once landfilling activities in the surrounding area are completed.

Unfortunately, since the DSW administrative staff and SCS Engineers were only recently informed of the incident, the DSW was unable to report the incident to the DEP any earlier. The DSW has implemented internal procedures to ensure that landfill employees provide more timely notification of such incidents.

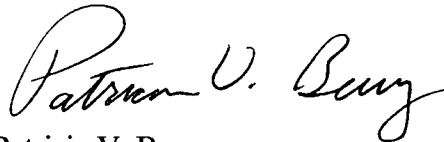
Regardless, the DSW intends to sample the surface and groundwater total dissolved solids (TDS) concentrations in the immediate vicinity of Basin A to determine any possible impact from the effluent discharge to either the surrounding surface or groundwater. The TDS is being evaluated since the effluent analysis indicates that TDS, of which chloride is the main component, is of concern with regard to possible impact on water quality.

The DSW proposes to collect samples from monitoring well TH-26 and from the surface water adjacent to Basin A. A groundwater sample will immediately be collected from TH-26, followed by the regular quarterly sampling event scheduled for mid-November. The surface water entering the tributary adjacent to Basin A will also be sampled immediately for TDS. Depending on results of the sampling, further assessment may or may not be necessary. The DSW will provide the DEP a copy of the analysis once it is available.

Mr. Kim Ford  
November 1, 1995  
Page Three

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

Attachments

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

**LEACHATE WATER BALANCE REPORT FORM**  
**SEPTEMBER 1995**  
**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.3	19.0	59.0	10,112,000	89,000	345,000	45,495	80,727	0	58,000	0	0	25,000	0
2	23.2	5.0	92.2	0.4	19.0	59.0	10,112,000	185,000	374,000	45,680	110,960	0	58,000	0	0	19,000	0
3	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,320	0	0	NR	0	0	0	0
4	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,895	134,300	0	NR	0	0	0	0
5	23.2	5.0	92.2	2.2	18.0	58.0	9,649,000	207,000	288,000	45,405	23,603	0	55,000	0	0	43,000	0
6	23.2	5.0	92.2	0.4	19.0	62.0	11,503,000	94,000	259,000	43,900	78,748	0	58,000	0	0	49,000	0
7	23.2	5.0	92.2	0.1	23.0	60.0	10,576,000	118,000	259,000	45,055	72,678	0	71,000	32,500	0	50,000	26,000
8	23.2	5.0	92.2	0.3	21.0	61.0	11,039,000	185,000	259,000	44,428	120,630	0	65,000	45,200	0	12,000	37,000
9	23.2	5.0	92.2	0.4	21.0	60.0	10,576,000	57,000	230,000	43,800	42,101	0	65,000	0	0	31,000	0
10	23.2	5.0	92.2	0.5	NR	NR	NR	NR	NR	46,880	0	0	NR	0	0	0	0
11	23.2	5.0	92.2	1.3	38.0	61.0	11,039,000	198,000	317,000	46,053	18,300	0	124,000	0	0	62,000	0
12	23.2	5.0	92.2	0.8	27.0	60.0	10,576,000	109,000	374,000	45,225	8,227	0	85,000	0	0	68,000	0
13	23.2	5.0	92.2	0.2	27.0	59.0	10,112,000	161,000	403,000	45,340	86,833	0	85,000	0	0	25,000	0
14	23.2	5.0	92.2	0.0	13.0	59.0	10,112,000	4,000	288,000	50,745	68,836	0	39,000	45,200	0	12,000	37,000
15	23.2	5.0	92.2	0.0	16.0	59.0	10,112,000	227,000	345,000	51,070	118,101	0	49,000	45,200	0	12,000	37,000
16	23.2	5.0	92.2	0.0	19.0	59.0	10,112,000	82,000	259,000	50,356	117,709	0	58,000	0	0	12,000	0
17	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	50,410	0	0	NR	0	0	0	0
18	23.2	5.0	92.2	0.0	30.0	60.0	10,576,000	186,000	259,000	50,530	85,092	0	95,000	42,700	0	43,000	35,000
19	23.2	5.0	92.2	0.2	22.0	59.0	10,112,000	97,000	202,000	50,445	104,362	0	68,000	42,700	0	18,000	35,000
20	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	119,000	202,000	50,340	68,403	0	75,000	42,700	0	25,000	35,000
21	23.2	5.0	92.2	0.0	15.0	58.0	9,649,000	96,000	173,000	50,520	74,458	0	45,000	42,700	0	18,000	35,000
22	23.2	5.0	92.2	0.0	25.0	59.0	10,112,000	72,000	144,000	50,380	49,949	0	78,000	42,700	0	6,000	35,000
23	23.2	5.0	92.2	0.0	27.0	60.0	10,576,000	51,000	144,000	50,660	0	0	85,000	0	0	56,000	0
24	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	49,930	0	0	NR	0	8500	0	7,000
25	23.2	5.0	92.2	0.0	25.0	60.0	10,576,000	251,000	230,000	52,710	62,242	0	78,000	40,500	8500	25,000	40,000
26	23.2	5.0	92.2	0.8	27.0	60.0	10,576,000	64,000	202,000	55,490	37,307	0	85,000	0	0	31,000	0
27	23.2	5.0	92.2	0.2	32.0	59.0	10,112,000	152,000	230,000	55,350	68,245	0	102,000	42,700	0	12,000	35,000
28	23.2	5.0	92.2	0.0	20.0	60.0	10,576,000	54,000	173,000	55,540	55,770	0	61,000	42,700	8500	18,000	41,000
29	23.2	5.0	92.2	0.9	27.0	59.0	10,112,000	37,000	144,000	54,560	11,516	0	85,000	0	0	68,000	0
30	23.2	5.0	92.2	0.0	24.0	60.0	10,576,000	84,000	202,000	55,500	0	0	75,000	0	0	43,000	0
Total				8.80	578.0	1489.0	259,295,000	2,939,000	6,305,000	1,472,012	1,696,897	0	1,802,000	507,500	25,500	783,000	435,000
Average				0.29	23.1	59.6	10,372,000	98,000	210,000	49,000	71,000	0	72,000	42,000	9,000	31,000	33,000

**Notes:**

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 Inches and is not included in total.
4. Column V, estimated from depth in Phase IV Piezometer.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 117.0 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in italic are substitute for missing data and are based on averaged values.

B-86BAL.WB2 By LER, 10/26/95.

**RECEIVED**  
**NOV 03 1995**

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

FIELD DATA ENTRY FORM  
SEPTEMBER 1995  
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII
Day	Active Area (ac.)	Depth in Effl. Pond (in.)	Stormwater In Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Hauled		Leachate Recirc. (gal.)	Effluent Hauled		Effluent Recirc. (gal.)	Leachate Treated at LTRF (gal.)	Effluent Sprayed (gal.)	Depth in 500K Tank (ft.)
								Contractor (gal.)	County (gal.)		Contractor (gal.)	County (gal.)				
1	5.0	19.0	75.0	6.0	16.0	59.0	0.3	61900.0	18827.0	0.0	24707.0	0.0	0.0	<i>45495.0</i>	0.0	12.0
2	5.0	19.0	76.0	5.0	16.0	59.0	0.4	85948.0	25012.0	0.0	18676.0	0.0	0.0	45680.0	0.0	13.0
3	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45320.0	0.0	NR
4	5.0	NR	NR	NR	NR	NR	0.0	109500.0	24800.0	0.0	0.0	0.0	0.0	44895.0	0.0	NR
5	5.0	18.0	81.0	7.0	18.0	58.0	2.2	18536.0	5067.0	0.0	43212.0	0.0	0.0	45405.0	0.0	10.0
6	5.0	19.0	81.0	7.0	18.0	62.0	0.4	72729.0	6019.0	0.0	49370.0	0.0	0.0	43900.0	0.0	9.0
7	5.0	23.0	80.0	7.0	18.0	60.0	0.1	72678.0	0.0	0.0	49661.0	0.0	0.0	45055.0	32600.0	9.0
8	5.0	21.0	77.0	7.0	18.0	61.0	0.3	120630.0	0.0	0.0	12400.0	0.0	0.0	<i>44427.5</i>	45200.0	9.0
9	5.0	21.0	77.0	7.0	18.0	60.0	0.4	42101.0	0.0	0.0	31155.0	0.0	0.0	43800.0	0.0	8.0
10	5.0	NR	NR	NR	NR	NR	0.5	0.0	0.0	0.0	0.0	0.0	0.0	46880.0	0.0	NR
11	5.0	38.0	75.0	7.0	17.0	61.0	1.3	0.0	18300.0	0.0	61970.0	0.0	0.0	<i>46052.5</i>	0.0	11.0
12	5.0	27.0	77.0	7.0	16.0	60.0	0.8	6227.0	0.0	0.0	67948.0	0.0	0.0	45225.0	0.0	13.0
13	5.0	27.0	78.0	6.0	16.0	59.0	0.2	80288.0	6345.0	0.0	24515.0	0.0	0.0	45340.0	0.0	14.0
14	5.0	13.0	78.0	6.0	16.0	59.0	0.0	56436.0	12400.0	0.0	12461.0	0.0	0.0	50745.0	45200.0	10.0
15	5.0	16.0	76.0	6.0	16.0	59.0	0.0	99486.0	18615.0	0.0	12300.0	0.0	0.0	51070.0	45200.0	12.0
16	5.0	19.0	75.0	4.0	16.0	59.0	0.0	92909.0	24800.0	0.0	12385.0	0.0	0.0	50356.0	0.0	9.0
17	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50410.0	0.0	NR
18	5.0	30.0	74.0	5.0	18.0	60.0	0.0	72692.0	12400.0	0.0	43215.0	0.0	0.0	50530.0	42700.0	9.0
19	5.0	22.0	74.0	4.0	16.0	59.0	0.2	85762.0	18600.0	0.0	18405.0	0.0	0.0	50445.0	42700.0	7.0
20	5.0	24.0	74.0	4.0	16.0	59.0	0.0	49659.0	18744.0	0.0	24595.0	0.0	0.0	50340.0	42700.0	7.0
21	5.0	15.0	73.0	4.0	16.0	58.0	0.0	55818.0	18640.0	0.0	18400.0	0.0	0.0	50520.0	42700.0	6.0
22	5.0	25.0	NR	3.0	16.0	59.0	0.0	31222.0	18727.0	0.0	6200.0	0.0	0.0	50380.0	42700.0	5.0
23	5.0	27.0	NR	3.0	16.0	60.0	0.0	0.0	0.0	0.0	55700.0	0.0	0.0	50660.0	0.0	5.0
24	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	8500.0	49930.0	0.0	NR
25	5.0	25.0	NR	3.0	16.0	60.0	0.0	43539.0	18703.0	0.0	24600.0	0.0	8500.0	<i>52710.0</i>	40500.0	8.0
26	5.0	27.0	NR	3.0	16.0	60.0	0.6	37307.0	0.0	0.0	31095.0	0.0	0.0	55490.0	0.0	7.0
27	5.0	32.0	NR	4.0	16.0	59.0	0.2	55779.0	12466.0	0.0	12300.0	0.0	0.0	55350.0	42700.0	8.0
28	5.0	20.0	NR	3.0	16.0	60.0	0.0	55770.0	0.0	0.0	18400.0	0.0	8500.0	55540.0	42700.0	6.0
29	5.0	27.0	NR	3.0	16.0	59.0	0.9	6200.0	5316.0	0.0	67667.0	0.0	0.0	54560.0	0.0	5.0
30	5.0	24.0	NR	3.0	17.0	60.0	0.0	0.0	0.0	0.0	43419.0	0.0	0.0	55500.0	0.0	7.0

## Notes:

1. NR = No Records.
2. Columns II-VIII, field measured. Column VIII, Trace is less than 0.01 inches.
3. Column VI, if level exceeds 24 inches, leachate withdrawal from landfill must increase.
4. Column VII, Phase IV piezometer began monitoring on 7/10/95.
5. Columns IX-XIV, quantities calculated from truck weight.
6. Columns XV and XVI, quantities from flow meters.
7. Column XVII, field measured.
8. Values in italic are substitute for missing data and are based on averaged values.

**DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL**  
(Month/Year) 9/95

Action	Date															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>Piezometer Phase IV</b>																
Low Level Operation, depth less than or equal to 12 inches.																
Normal Operation, depth greater than 12 inches and less than or equal to 24 inches.																
High Level Operation, depth greater than 24 inches and less than or equal to 30 inches. Increase leachate removal and contact supervisor immediately.	✓	NR	NR	NR	✓	✓	✓	✓	NR	NR	✓	✓	✓	✓	✓	NR
<b>Sump No. 4 Phase VI (Stormwater)</b>																
Normal Operation, level is greater than or equal to 6 inches above level measured in Phase IV piezometer.	✓	NR	NR	NR	✓	✓	✓	✓	NR	NR	✓	✓	✓	✓	✓	NR
If level is more than 6 inches below the level measure in Phase IV piezometer, stop pumping to Basin D.																
<b>5,000 Gallon Tank at LTRF</b>																
Normal Operation.					✓	✓	✓	✓			✓			✓		
If level is greater than 11 feet, increase treatment, hauling, or recirculation.	✓	NR	NR	NR					NR	NR		✓	✓			NR
If level is less than 6 feet, decrease or stop hauling, recirculation.																
<b>Effluent Pond</b>																
Normal Operation.	✓				✓	✓	✓	✓			✓	✓	✓	✓	✓	✓
If level is 6 inches or less, stop irrigation, recirculation, hauling.		NR	NR	NR					NR	NR						NR
If level is greater than 4 feet, increase irrigation, recirculation, hauling.																
<b>Observed runoff of effluent to stormwater basins?</b>																
No.	✓	NR	NR	NR	✓	✓	✓	✓	NR	NR	✓	✓	✓	✓	✓	NR
If yes, contact supervisor immediately. Stop spray irrigation. Identify Basin and type.																
Runoff Type																
To Basin																
1 = Severe																
2 = Moderate																
3 = Minor																

Comments/Remedial Action: \_\_\_\_\_

Prepared by: \_\_\_\_\_



**DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL  
(Month/Year) 9/85**

Action	Date														
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<b>Piezometer Phase IV</b>															
Low Level Operation, depth less than or equal to 12 inches.															
Normal Operation, depth greater than 12 inches and less than or equal to 24 inches.															
High Level Operation, depth greater than 24 inches and less than or equal to 30 inches. Increase leachate removal and contact supervisor immediately.	NR	✓		✓	✓	NR	✓	✓	✓	✓	✓	✓	✓	NR	✗
<b>Sump No. 4 Phase VI (Stormwater)</b>															
Normal Operation, level is greater than or equal to 6 inches above level measured in Phase IV piezometer.	NR	✓		✓	✓	NR	✓	✓	NR	NR	NR	NR	NR	NR	
If level is more than 6 inches below the level measure in Phase IV piezometer, stop pumping to Basin D.															
<b>5,000 Gallon Tank at LTRF</b>															
Normal Operation.		✓		✓	✓		✓		✓	✓	✓	✓			
If level is greater than 11 feet, increase treatment, hauling, or recirculation.	NR					NR								NR	
If level is less than 6 feet, decrease or stop hauling, recirculation.								✓					✓		
<b>Effluent Pond</b>															
Normal Operation.		✓		✓	✓		✓	✓	✓	✓	✓	✓	✓		
If level is 6 inches or less, stop irrigation, recirculation, hauling.	NR					NR								NR	
If level is greater than 4 feet, increase irrigation, recirculation, hauling.															
<b>Observed runoff of effluent to stormwater basins?</b>															
No.	NR	✓		✓		NR	✓	✓	✓	✓	✓	✓	✓	NR	
If yes, contact supervisor immediately. Stop spray irrigation. Identify Basin and type. <b>Runoff Type</b> 1 = Severe 2 = Moderate 3 = Minor					3 A *										
<b>To Basin</b> A, B, C, D															

Comments/Remedial Action: Header pipe broke

Prepared by: \_\_\_\_\_

**1995 YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan	4.60	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
Feb	2.40	4,063,000	2,942,000	(1) 0	0	0	650,000	4,063,000	3,592,000	471,000
March	1.90	3,467,000	2,320,000	(1) 0	0	113,000	932,000	3,467,000	3,365,000	102,000
April	1.60	2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,277,000	348,000
May	2.40	2,331,000	865,725	652,689	0	0	1,000,270	2,331,000	2,518,684	(187,684)
June	8.30	2,369,000	904,543	758,000	0	0	568,520	2,369,000	2,231,063	137,937
July	17.90	2,296,000	845,087	1,185,000	0	0	319,750	2,296,000	2,349,837	(53,837)
August	15.80	2,940,000	1,620,842	1,050,000	0	0	398,520	2,940,000	3,069,362	(129,362)
September	8.80	2,939,000	1,696,897	783,000	0	25,500	507,500	2,939,000	3,012,897	(73,897)
YTD Total	63.70	26,134,000	15,485,094	4,821,689	60,000	138,500	5,076,560	26,134,000	25,581,843	552,157

Notes:

1. Effluent quantities not measured separately.
2. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

LEACHATE DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) Sept. 95

Date	Active Area (acres)	(1) Phase IV Piezometer (inches)	Station No. 3 (inches)	Phase IV Riser (Inches)	Phase III Riser (inches)	Station No. 4 (inches)	Depth in 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)
									Contractor (gallons)	County (gallons)		
1		59	12	16	6	75	12	360K	61,900	18,827	—	.3
2		59	12	16	5	76	13	390K	85,948	25,012	—	.4
3		NR	NR	NR	NR	NR	NR	NR	NR	NR	—	0
4		NR	NR	NR	NR	NR	NR	NR	109,500	24,800	—	0
5		58	12	18	7	81	10	300K	18,536	5,067	—	2.2
6		62	12	18	7	81	9	270K	72,729	6,019	—	.4
7		60	12	18	7	80	9	270K	72,678	—	—	.1
8		61	12	18	7	77	9	270K	120,630	—	—	.3
9		60	12	18	7	77	8	240K	42,101	—	—	.4
10		NR	NR	NR	NR	NR	NR	NR	NR	NR	—	.05
11		61	12	17	7	75	11	330K	—	18,300	—	1.3
12		60	12	16	7	77	13	390K	6,227	—	—	.8
13		59	12	16	6	78	14	420K	86,288	6,345	—	.2
14		59	12	16	6	78	10	300K	56,436	12,400	—	0
15		59	12	16	6	76	12	360K	99,486	18,615	—	0
16		59	12	16	4	75	9	270K	92,909	24,800	—	0
Leachate Hauled Subtotal									919,368	160,188		

(1) If depth is greater than 24 inches (2.0 feet): Contact Supervisor immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

• Prepared by: \_\_\_\_\_

LEACHATE DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) Sept. 95

Date	Active Area (acres)	(1) Phase IV Piezometer (inches)	Station No. 3 (inches)	Phase IV Riser (inches)	Phase III Riser (inches)	Station No. 4 (inches)	Depth In 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)
									Contractor (gallons)	County (gallons)		
17		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0
18		60	12	18	5	74	9	270K	72,692	12,400	—	0
19		59	12	16	4	74	7	210K	85,762	18,600	—	.2
20		59	12	16	4	74	7	210K	49,659	18,744	—	0
21		58	12	16	4	73	6	180K	55,818	18,640	—	0
22		59	12	16	3	NR	5	150K	31,222	18,727	—	0
23		60	12	16	3	NR	5	150K	—	—	—	0
24		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	
25		60	12	16	3	NR	8	240K	43,539	18,703	—	0
26		60	12	16	3	NR	7	210K	37,307	—	—	.6
27		59	12	16	4	NR	8	240K	55,779	12,466	—	.2
28		60	12	16	3	NR	6	180K	55,770	—	—	0
29		59	12	16	3	NR	5	150K	6,200	5,316	—	.9
30		60	12	17	3	NR	7	210K	—	—	—	0
31												
Leachate Hauled Subtotal									493,748	123,596		

(1) If depth is greater than 24 inches (2.0 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

Leachate Hauled Month Total:

1,696,900

• Prepared by: \_\_\_\_\_

EFFLUENT DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) Sept. 95

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)
				Contractor (gallons)	County (gallons)				
1	19	*	—	24,707	—	—	—	—	—
2	19	45,680	—	18,676	—	—	45,680	—	—
3	NR	45,320	—	—	—	—	45,320	—	—
4	NR	44,895	—	—	—	—	44,895	—	—
5	18	45,405	—	43,212	—	—	45,405	—	—
6	19	43,900	—	49,370	—	—	43,900	—	—
7	23	45,055	32,500	49,661	—	—	12,555	—	N
8	21	*	45,200	12,400	—	—	—	—	N
9	21	43,800	—	31,155	—	—	43,800	—	—
10	NR	46,880	—	—	—	—	46,880	—	—
11	38	*	—	61,970	—	—	—	—	—
12	27	45,225	—	67,948	—	—	45,225	—	—
13	27	45,340	—	24,515	—	—	45,340	—	—
14	13	50,745	45,200	12,461	—	—	5,545	—	N
15	16	51,070	45,200	12,300	—	—	4,870	—	N
16	19	50,356	—	12,385	—	—	50,356	—	—

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \* See operators daily log

Prepared by: \_\_\_\_\_

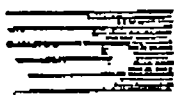
EFFLUENT DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL  
(Month/Year) Sept 95

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)
				Contractor (gallons)	County (gallons)				
17	NR	50,410	-	-	-	-	50,410	-	-
18	30	50,530	42,700	43,215	-	-	7,830	-	N
19	22	50,445	42,700	18,405	-	-	7,745	-	N
20	24	50,340	42,700	24,595	-	-	7,640	-	N
21	15	50,520	42,700	18,400	-	-	7,820	-	N
22	25	50,380	42,700	6,200	-	-	7,680	-	N
23	27	50,660	-	55,700	-	-	-	-	-
24	NR	49,930	-	-	-	8,500	-	-	-
25	25	*	40,500	24,600	-	8,500	-	-	N
26	27	55,490	-	31,095	-	-	-	-	-
27	32	55,350	42,700	12,300	-	-	12,650	-	N
28	20	55,540	42,700	18,400	-	8,500	12,840	-	N
29	27	54,560	-	67,667	-	-	54,560	-	-
30	24	55,500	-	43,419	-	-	-	-	-
31									

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \*See operators daily log

Prepared by: \_\_\_\_\_



# Hillsborough County

Department of Solid Waste • P.O. Box 1110  
Tampa, FL 33601

Sender's Telephone Number: 276-2910

24-Hour FAX Line — (813) 276-2960



"Together We CAN-DO It"

DATE: 11-1-95

TO: Kim Fnd

FAX: 744-6125

SUBJECT: \_\_\_\_\_

FROM: Patty

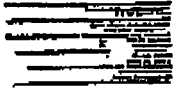
COMMENTS (If Any): Hard Copy to follow

↓  
If spoke with par section and he will ask Ron Cape  
to follow up on the discharge so you can  
call him if you have any questions.

Total Pages Sent (including cover sheet) 4

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Household Chemical Collection • Adopt-A-Road & Adopt-A-Shore  
Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services  
Community Collection Centers • Environmental Testing

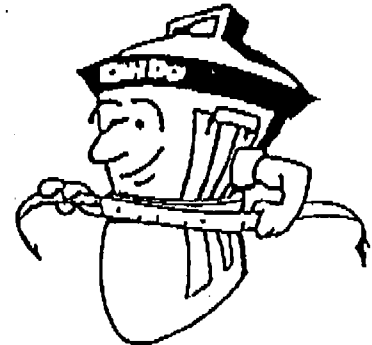


# Hillsborough County

Department of Solid Waste • P.O. Box 1110  
Tampa, FL 33601

Sender's Telephone Number: 276-2910

24-Hour FAX Line — (813) 276-2960



"Together We CAN-DO It"

DATE: 11-1-95

TO: Kim Ford

FAX: 744-6125 SUBJECT: \_\_\_\_\_

FROM: Patty

COMMENTS (If Any): Hard Copy to follow

Total Pages Sent (including cover sheet) 4

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Household Chemical Collection • Adopt-A-Road & Adopt-A-Shore  
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**HILLSBOROUGH COUNTY**

Florida

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Patricia BeanAssistant County Administrators  
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Cetta Johnson  
Jimmie Keel  
Robert Taylor

November 1, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the month of September 1995. In addition, the DSW is providing the September 1995 field data forms for the Landfill, the daily leachate and collection system evaluation reports, and the treatment plant operator's form. The DSW is also providing 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 an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

In addition, the DSW is notifying the DEP that the purchase of the permanent pump for Temporary Pump Station No. V in Phase IV has been temporarily delayed due to problems in procurement of the specified equipment. In response to the County's bid advertisement to purchase the pump, no bids were received. The County's Purchasing Department is again attempting to seek bids. In the interim, however, the DSW is relocating the larger six inch pump from Phases V and VI to Pump Station No. V. The DSW will attempt to modify the pump with fittings and reducers to be able to connect to the four inch leachate line. Unfortunately, because of the pumping limitations during the past few months, it appears that the leachate level in the Phase IV piezometer has not yet been affected. If the connection of the six inch pump is successful, the DSW should be able to run this pump on continuous idle, resulting in greater leachate removal from Phase IV.

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Mr. Kim Ford  
November 1, 1995  
Page Two

In addition, the Daily Leachate Collection and Recovery System Evaluation Report references that a header pipe broke resulting in a minor spray irrigation discharge on October 21, 1995. The DSW is providing the following information to explain the comment.

On September 21, 1995, an effluent irrigation lateral was damaged from landfilling activities resulting in a minor effluent discharge to land surface. Upon observing the damage to the lateral pipe, an employee immediately shut the irrigation system down and isolated the break from the active irrigation system. The leak duration was a few minutes.

The damage to the lateral pipe occurred on the west end of Phase I which is currently being landfilling. Approximately 200 gallons of effluent was discharged over the lined area of the landfill, with a portion of the effluent infiltrating into the cover soils of the landfill. A portion of the effluent also entered stormwater Basin A and infiltrated into the basin before it could be recovered.

The damaged lateral is still disconnected from the active spray irrigation system and will be repaired once landfilling activities in the surrounding area are completed.

Unfortunately, since the DSW administrative staff and SCS Engineers were only recently informed of the incident, the DSW was unable to report the incident to the DEP any earlier. The DSW has implemented internal procedures to ensure that landfill employees provide more timely notification of such incidents.

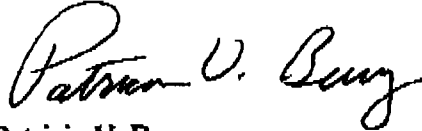
Regardless, the DSW intends to sample the surface and groundwater total dissolved solids (TDS) concentrations in the immediate vicinity of Basin A to determine any possible impact from the effluent discharge to either the surrounding surface or groundwater. The TDS is being evaluated since the effluent analysis indicates that TDS, of which chloride is the main component, is of concern with regard to possible impact on water quality.

The DSW proposes to collect samples from monitoring well TH-26 and from the surface water adjacent to Basin A. A groundwater sample will immediately be collected from TH-26, followed by the regular quarterly sampling event scheduled for mid-November. The surface water entering the tributary adjacent to Basin A will also be sampled immediately for TDS. Depending on results of the sampling, further assessment may or may not be necessary. The DSW will provide the DEP a copy of the analysis once it is available.

Mr. Kim Ford  
November 1, 1995  
Page Three

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

**Attachments**

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

Department of Environmental Regulation  
**Routing and Transmittal Slip**

To: (Name, Office, Location)

1. LARRY RUIZ  
2. SCS ENGINEERS  
3. 3012 US HIGHWAY 301 NORTH  
4. SUITE 100

Remarks:

TAMPA, FL 33619

Info  
for  
your file

From:

[Signature]

Date

10/26

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1476 (Florida Only) or  
Ida Only: 1-800-231-6103

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M 549-5970 Inverness, Florida 34453-3809  
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SOUTHWEST DISTRICT

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To: KIM FORD	From: LARRY RUIZ
Co: FDEP	Co:
Dept: 744-6125	Phone #
Fax: 744-6125	Fax #

DRAFT

**1995 YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan.	4.60	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
Feb.	2.40	4,083,000	2,942,000	(1) 0	0	0	660,000	4,083,000	3,592,000	471,000
March	1.80	3,467,000	2,320,000	(1) 0	0	113,000	832,000	3,467,000	3,365,000	102,000
April	1.60	2,626,000	1,124,000	393,000	60,000	0	700,000	2,626,000	2,277,000	348,000
May	2.40	2,331,000	865,725	662,689	0	0	1,000,270	2,331,000	2,518,684	(187,684)
June	8.30	2,369,000	904,543	768,000	0	0	568,520	2,369,000	2,231,063	137,937
July	17.80	2,296,000	846,087	1,185,000	0	0	319,760	2,296,000	2,349,837	(53,837)
August	15.80	2,940,000	1,620,842	1,050,000	0	0	398,520	2,940,000	3,069,382	(129,382)
September	8.80	2,939,000	1,686,897	783,000	0	26,500	507,500	2,939,000	3,012,897	(73,897)
YTD Total	63.70	26,134,000	15,485,094	4,821,689	60,000	138,500	6,076,560	26,134,000	25,581,843	552,157

## Notes:

1. Effluent quantities not measured separately.
2. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

## LEACHATE WATER BALANCE REPORT FORM

SEPTEMBER 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.3	19.0	59.0	10,112,000	69,000	345,000	45,495	80,727	0	58,000	0	0	25,000	0
2	23.2	5.0	92.2	0.4	19.0	59.0	10,112,000	185,000	374,000	45,680	110,960	0	58,000	0	0	19,000	0
3	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,320	0	0	NR	0	0	0	0
4	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,895	134,300	0	NR	0	0	0	0
5	23.2	5.0	92.2	2.2	19.0	58.0	9,649,000	207,000	288,000	45,405	23,603	0	55,000	0	0	43,000	0
6	23.2	5.0	92.2	0.4	19.0	62.0	11,503,000	84,000	259,000	43,900	76,748	0	58,000	0	0	49,000	0
7	23.2	5.0	92.2	0.1	23.0	60.0	10,578,000	118,000	259,000	45,055	72,678	0	71,000	32,500	0	50,000	28,000
8	23.2	5.0	92.2	0.3	21.0	61.0	11,039,000	185,000	259,000	44,428	120,630	0	65,000	45,200	0	12,000	37,000
9	23.2	5.0	92.2	0.4	21.0	60.0	10,578,000	57,000	230,000	43,800	42,101	0	65,000	0	0	31,000	0
10	23.2	5.0	92.2	0.5	NR	NR	NR	NR	NR	46,880	0	0	NR	0	0	0	0
11	23.2	5.0	92.2	1.3	38.0	61.0	11,039,000	188,000	317,000	46,053	18,300	0	124,000	0	0	62,000	0
12	23.2	5.0	92.2	0.8	27.0	60.0	10,578,000	109,000	374,000	45,225	6,227	0	65,000	0	0	68,000	0
13	23.2	5.0	92.2	0.2	27.0	59.0	10,112,000	181,000	403,000	45,340	86,833	0	85,000	0	0	25,000	0
14	23.2	5.0	92.2	0.0	13.0	59.0	10,112,000	4,000	288,000	50,745	88,836	0	38,000	45,200	0	12,000	37,000
15	23.2	5.0	92.2	0.0	18.0	59.0	10,112,000	227,000	345,000	51,070	118,101	0	49,000	45,200	0	12,000	37,000
16	23.2	5.0	92.2	0.0	19.0	59.0	10,112,000	82,000	259,000	50,358	117,709	0	58,000	0	0	12,000	0
17	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	50,410	0	0	NR	0	0	0	0
18	23.2	5.0	92.2	0.0	30.0	60.0	10,578,000	186,000	259,000	50,530	85,092	0	95,000	42,700	0	43,000	35,000
19	23.2	5.0	92.2	0.2	22.0	59.0	10,112,000	97,000	202,000	50,445	104,362	0	85,000	42,700	0	18,000	35,000
20	23.2	5.0	92.2	0.0	24.0	59.0	10,112,000	119,000	202,000	50,340	88,603	0	75,000	42,700	0	25,000	35,000
21	23.2	5.0	92.2	0.0	15.0	58.0	9,649,000	98,000	173,000	50,520	74,458	0	45,000	42,700	0	18,000	35,000
22	23.2	5.0	92.2	0.0	25.0	59.0	10,112,000	72,000	144,000	50,380	48,949	0	78,000	42,700	0	6,000	35,000
23	23.2	5.0	92.2	0.0	27.0	60.0	10,578,000	51,000	144,000	50,660	0	0	85,000	0	0	56,000	0
24	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	49,930	0	0	NR	0	0	8500	7,000
25	23.2	5.0	92.2	0.0	25.0	60.0	10,578,000	251,000	230,000	62,770	62,242	0	79,000	40,500	8500	25,000	40,000
26	23.2	5.0	92.2	0.6	27.0	60.0	10,578,000	84,000	202,000	55,490	37,307	0	85,000	0	0	31,000	0
27	23.2	5.0	92.2	0.2	32.0	59.0	10,112,000	152,000	230,000	55,350	68,245	0	102,000	42,700	0	12,000	35,000
28	23.2	5.0	92.2	0.0	20.0	60.0	10,578,000	64,000	173,000	55,540	56,770	0	81,000	42,700	8500	18,000	41,000
29	23.2	5.0	92.2	0.9	27.0	59.0	10,112,000	37,000	144,000	54,560	11,518	0	85,000	0	0	68,000	0
30	23.2	5.0	92.2	0.0	24.0	60.0	10,578,000	84,000	202,000	55,500	0	0	75,000	0	0	43,000	0
Total				8.80	578.0	1489.0	259,295,000	2,939,000	8,305,000	1,472,012	1,896,697	0	1,802,000	507,500	25,500	783,000	435,000
Average				0.29	23.1	59.8	10,372,000	98,000	210,000	49,000	71,000	0	72,000	42,000	9,000	31,000	33,000

8-858AL/W62 By LER, 10/26/95.

## Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
4. Column V, estimated from depth in Phase IV Piezometer.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 117.0 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in Italic are substitutes for missing data and are based on averaged values.

**FIELD DATA ENTRY FORM**  
**SEPTEMBER 1995**  
**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII
Day	Active Area (ac.)	Depth in Effl. Pond (in.)	Stormwater In Sump No. 4 (in.)	Phase III Riser (in.)	Phase IV Riser (in.)	Phase IV Piezometer (in.)	Rainfall (in.)	Leachate Hauled Contractor (gal.)	Leachate Hauled County (gal.)	Leachate Recirc. (gal.)	Effluent Hauled Contractor (gal.)	Effluent Hauled County (gal.)	Effluent Recirc. (gal.)	Leachate Treated at TRF (gal.)	Effluent Sprayed (gal.)	Depth in 50CK Tank (ft.)
1	5.0	19.0	75.0	6.0	18.0	69.0	0.3	51900.0	18827.0	0.0	24707.0	0.0	0.0	45495.0	0.0	12.0
2	5.0	19.0	76.0	5.0	18.0	69.0	0.4	86948.0	25012.0	0.0	18676.0	0.0	0.0	45680.0	0.0	13.0
3	6.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45320.0	0.0	NR
4	5.0	NR	NR	NR	NR	NR	0.0	109600.0	24800.0	0.0	0.0	0.0	0.0	44895.0	0.0	NR
5	5.0	18.0	81.0	7.0	18.0	68.0	2.2	18536.0	5067.0	0.0	43212.0	0.0	0.0	45405.0	0.0	10.0
6	5.0	19.0	81.0	7.0	18.0	62.0	0.4	72729.0	8019.0	0.0	49370.0	0.0	0.0	43900.0	0.0	9.0
7	5.0	23.0	80.0	7.0	18.0	60.0	0.1	72678.0	0.0	0.0	49661.0	0.0	0.0	45055.0	32500.0	9.0
8	5.0	21.0	77.0	7.0	18.0	61.0	0.3	120630.0	0.0	0.0	12400.0	0.0	0.0	44427.5	45200.0	9.0
9	5.0	21.0	77.0	7.0	18.0	60.0	0.4	42101.0	0.0	0.0	31155.0	0.0	0.0	43800.0	0.0	8.0
10	5.0	NR	NR	NR	NR	NR	0.5	0.0	0.0	0.0	0.0	0.0	0.0	46880.0	0.0	NR
11	5.0	38.0	75.0	7.0	17.0	61.0	1.3	0.0	18300.0	0.0	61970.0	0.0	0.0	46052.5	0.0	11.0
12	5.0	27.0	77.0	7.0	16.0	60.0	0.8	6227.0	0.0	0.0	67948.0	0.0	0.0	45225.0	0.0	13.0
13	5.0	27.0	78.0	6.0	16.0	59.0	0.2	80288.0	8345.0	0.0	24515.0	0.0	0.0	45340.0	0.0	14.0
14	5.0	13.0	78.0	6.0	16.0	59.0	0.0	66436.0	12400.0	0.0	12461.0	0.0	0.0	50745.0	45200.0	10.0
15	5.0	16.0	76.0	6.0	16.0	59.0	0.0	99486.0	18615.0	0.0	12300.0	0.0	0.0	51070.0	45200.0	12.0
16	5.0	18.0	75.0	4.0	16.0	59.0	0.0	82809.0	24800.0	0.0	12385.0	0.0	0.0	50356.0	0.0	9.0
17	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50410.0	0.0	NR
18	5.0	30.0	74.0	5.0	18.0	60.0	0.0	72692.0	12400.0	0.0	43215.0	0.0	0.0	50530.0	42700.0	9.0
19	5.0	22.0	74.0	4.0	16.0	59.0	0.2	85762.0	18600.0	0.0	18405.0	0.0	0.0	50445.0	42700.0	7.0
20	5.0	24.0	74.0	4.0	16.0	59.0	0.0	49569.0	18744.0	0.0	24595.0	0.0	0.0	50340.0	42700.0	7.0
21	5.0	15.0	73.0	4.0	16.0	58.0	0.0	55818.0	18640.0	0.0	18400.0	0.0	0.0	50520.0	42700.0	6.0
22	5.0	25.0	NR	3.0	16.0	59.0	0.0	31222.0	18727.0	0.0	6200.0	0.0	0.0	50380.0	42700.0	5.0
23	5.0	27.0	NR	3.0	18.0	80.0	0.0	0.0	0.0	0.0	65700.0	0.0	0.0	50660.0	0.0	5.0
24	5.0	NR	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	8500.0	49330.0	0.0	NR
25	5.0	26.0	NR	3.0	16.0	60.0	0.0	43539.0	18703.0	0.0	24500.0	0.0	8500.0	52710.0	40600.0	8.0
26	5.0	27.0	NR	3.0	16.0	60.0	0.6	37307.0	0.0	0.0	31095.0	0.0	0.0	55490.0	0.0	7.0
27	5.0	32.0	NR	4.0	16.0	59.0	0.2	55779.0	12468.0	0.0	12300.0	0.0	0.0	55350.0	42700.0	8.0
28	5.0	20.0	NR	3.0	16.0	60.0	0.0	55770.0	0.0	0.0	18400.0	0.0	8500.0	55540.0	42700.0	6.0
29	5.0	27.0	NR	3.0	16.0	59.0	0.8	6200.0	6316.0	0.0	67667.0	0.0	0.0	54560.0	0.0	5.0
30	5.0	24.0	NR	3.0	17.0	60.0	0.0	0.0	0.0	0.0	43419.0	0.0	0.0	55500.0	0.0	7.0

**Notes:**

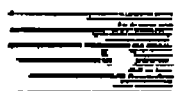
- NR = No Records.
- Columns II-VIII, field measured. Column VIII, Trace is less than 0.01 inches.
- Column VI, if level exceeds 24 inches, leachate withdrawal from landfill must increase.
- Column VII, Phase IV piezometer began monitoring on 7/10/95.
- Columns IX-XIV, quantities calculated from truck weight.
- Columns XV and XVI, quantities from flow meters.
- Column XVII, field measured.
- Values in *italic* are substitute for missing data and are based on averaged values.

P003/003

TO 7446125

FROM SCS ENGINEERS TAMPA

10-25-95 03:54PM



# Hillsborough County

Department of Solid Waste \* P.O. Box 1110  
Tampa, FL 33601

Sender's Telephone Number: 276-29

24-Hour FAX Line — (813) 276-2960



"Together We CAN-DO It"

DATE: 9-19-95 ✓

TO: Kim Fnd

FAX: 744-6125 SUBJECT: Deachols Management

FROM: Patty Berry

COMMENTS (If Any): Hard Copy will follow  
With remaining lock-up. Please call if  
you have a question

Total Pages Sent (including cover sheet) — 5

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Residential & Commercial Collection Services • Curbside Recycling • Resource Recovery  
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Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services  
Community Collection Centers • Environmental Testing



# HILLSBOROUGH COUNTY

Florida

Office of the County Administrator

Daniel A. Klemm

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Assistant County Administrators  
Edwin Hunzeker  
Cecilia Johnson  
Jimmie Keel  
Robert Taylor

September 20, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the complete month of August 1995. In addition, the DSW is providing the August 1995 field data forms for the Landfill and the daily leachate and collection system evaluation reports. The DSW is also providing the Year-to-Date Leachate Balance Summary and revised Leachate Balance Reports for January through August so that the averages include only the days with values, except for columns VII and VIII which include daily cumulative values.

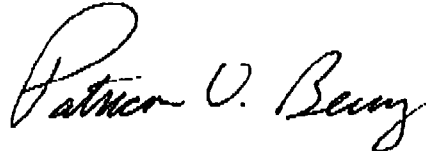
This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

In addition, the DSW is notifying the DEP that Temporary Pump Station No. V in Phase IV has been constructed and that leachate is being collected from this sump via a temporary pump. The permanent pump has been requisitioned and will be installed once received. SCS Engineers is in the process of completing the construction certification with all record drawings and elevations for the work completed to date and will provide this information to the County prior to October 1, 1995. The DSW will forward the certification report to the DEP once it is received.

Mr. Kim Ford  
September 20, 1995  
Page Two

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

**Attachments**

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

**1995 YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Reinfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan	4.80	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
Feb	2.40	4,063,000	2,942,000	(1) 0	0	0	650,000	4,063,000	3,592,000	471,000
March	1.90	3,487,000	2,320,000	(1) 0	0	113,000	932,000	3,487,000	3,365,000	102,000
April	1.60	2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,277,000	348,000
May	2.40	2,331,000	865,725	652,689	0	0	1,000,270	2,331,000	2,518,684	(187,684)
June	8.30	2,369,000	904,543	758,000	0	0	568,520	2,369,000	2,231,063	137,937
July	17.80	2,296,000	845,087	1,185,000	0	0	319,750	2,296,000	2,349,837	(53,837)
August	15.80	2,940,000	1,620,842	1,050,000	0	0	398,520	2,940,000	3,069,362	(129,362)
YTD Total	54.90	23,195,000	13,788,187	4,038,689	60,000	113,000	4,569,060	23,195,000	22,568,946	626,054

Notes:

1. Effluent quantities not measured separately.
2. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

## LEACHATE WATER BALANCE REPORT FORM

AUGUST 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	39.0	59.0	10,112,000	138,000	481,000	44,970	93,397	0	127,000	45,000	0	36,000	36,000
2	23.2	5.0	92.2	0.4	NR	NR	NR	NR	NR	45,290	62,000	0	NR	0	0	48,000	0
3	23.2	5.0	92.2	2.5	31.0	58.0	9,649,000	163,000	403,000	45,230	67,899	0	99,000	0	0	67,000	0
4	23.2	5.0	92.2	0.1	31.0	58.0	9,649,000	112,000	403,000	45,450	66,154	0	99,000	45,750	0	73,000	37,000
5	23.2	5.0	92.2	0.0	32.0	58.0	9,649,000	120,000	432,000	45,560	45,728	0	102,000	0	0	55,000	0
6	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,280	0	0	NR	0	0	0	0
7	23.2	5.0	92.2	0.0	39.0	58.0	9,649,000	143,000	432,000	45,230	52,627	0	127,000	37,440	0	50,000	30,000
8	23.2	5.0	92.2	0.0	26.0	58.0	9,649,000	142,000	432,000	45,330	96,408	0	81,000	45,750	0	25,000	37,000
9	23.2	5.0	92.2	0.0	20.0	59.0	10,112,000	120,000	403,000	32,860	116,408	0	61,000	45,700	0	12,000	37,000
10	23.2	5.0	92.2	0.0	18.0	58.0	9,649,000	61,000	317,000	36,590	110,529	0	49,000	0	0	19,000	0
11	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	98,000	259,000	45,790	109,307	0	75,000	0	0	6,000	0
12	23.2	5.0	92.2	0.7	18.0	58.0	9,649,000	70,000	230,000	45,385	53,350	0	55,000	0	0	49,000	0
13	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,960	0	0	NR	0	0	0	0
14	23.2	5.0	92.2	0.5	30.0	60.0	10,576,000	197,000	288,000	45,160	49,896	0	95,000	0	0	25,000	0
15	23.2	5.0	92.2	1.5	31.0	59.0	10,112,000	34,000	259,000	44,325	18,823	0	99,000	0	0	65,000	0
16	23.2	5.0	92.2	0.3	33.0	59.0	10,112,000	86,000	288,000	45,045	11,854	0	106,000	0	0	74,000	0
17	23.2	5.0	92.2	0.0	27.0	58.0	9,649,000	118,000	317,000	45,350	43,419	0	85,000	42,200	0	31,000	34,000
18	23.2	5.0	92.2	0.0	18.0	59.0	10,112,000	108,000	288,000	44,390	92,103	0	55,000	0	0	6,000	0
19	23.2	5.0	92.2	0.0	23.0	59.0	10,112,000	61,000	230,000	45,740	73,193	0	71,000	0	0	0	0
20	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,665	0	0	NR	0	0	0	0
21	23.2	5.0	92.2	0.0	29.0	57.0	9,185,000	131,000	230,000	42,350	43,571	0	92,000	0	0	49,000	0
22	23.2	5.0	92.2	1.5	30.0	57.0	9,185,000	105,000	259,000	45,220	31,088	0	95,000	0	0	43,000	0
23	23.2	5.0	92.2	0.0	35.0	59.0	10,112,000	129,000	288,000	45,215	55,057	0	113,000	0	0	19,000	0
24	23.2	5.0	92.2	0.0	26.0	60.0	10,576,000	59,000	259,000	44,590	43,536	0	81,000	45,560	0	37,000	37,000
25	23.2	5.0	92.2	0.7	24.0	60.0	10,576,000	111,000	288,000	45,125	37,188	0	75,000	0	0	56,000	0
26	23.2	5.0	92.2	4.5	29.0	58.0	9,649,000	64,000	288,000	45,660	18,708	0	92,000	0	0	68,000	0
27	23.2	5.0	92.2	1.8	NR	NR	NR	NR	NR	44,870	0	0	NR	0	0	0	0
28	23.2	5.0	92.2	0.4	37.0	59.0	10,112,000	125,000	317,000	45,030	6,120	0	120,000	0	0	61,000	0
29	23.2	5.0	92.2	0.8	33.0	59.0	10,112,000	144,000	403,000	45,370	12,367	0	106,000	0	0	66,000	0
30	23.2	5.0	92.2	0.1	29.0	60.0	10,576,000	190,000	461,000	44,890	87,165	0	92,000	45,560	0	12,000	37,000
31	23.2	5.0	92.2	0.0	20.0	59.0	10,112,000	111,000	403,000	45,310	123,451	0	61,000	45,560	0	6,000	37,000
Total				15.80	730.0	1524.0	258,284,000	2,940,000	8,638,000	1,376,230	1,620,842	0	2,313,000	398,520	0	1,050,000	322,000
Average				0.51	28.1	58.6	9,934,000	95,000	279,000	44,000	60,000	0	89,000	44,000	0	40,000	36,000

8-95BAL-VYB2 Revised by BLW, 8/11/96.

## Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
4. Column V, estimated from depth in Phase IV Piezometer.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 117.0 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in *italics* are substitute for missing data and are based on averaged values.

---

**FAX COVER**

---

**TO:**

**DATE:** August 17, 1995  
**NAME:** Mr. Robert Butera  
**ORGANIZATION:** FDEP  
**FAX NUMBER:** 813/744-6125  
**PHONE NUMBER:** 813/744-6100

---

**SCS ENGINEERS**

Environmental Consultants

3012 U.S. Highway 301 North  
Suite 700  
Tampa, Florida 33619

Phone 813 621 0080  
FAX 813 623-6757

**FROM:** Larry E. Ruiz  
**JOB NUMBER:** 0990018.35  
**NUMBER OF PAGES:** 3

**COMMENTS:**

Please confirm receipt of fax to llene at 813/621-0080.

Environmental Consultants

3012 U.S. Highway 301 North  
Suite 700  
Tampa, FL 33619-2242813 744-6125  
FAX 813 744-6126**SCS ENGINEERS**File No. 0990018.35  
August 17, 1995Mr. Kim B. Ford, P.E.  
Solid Waste Section  
Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619Subject: Temporary Pump Station #5 Construction, Southeast County Landfill  
Hillsborough County, Florida.

Dear Mr. Ford:

Please be advised that the Hillsborough County Department of Solid Waste (HCDSW) is planning to begin construction activities for the Temporary Pump Station #5 (TPS-5) on August 21, 1995. The construction schedule will be as follows:

- August 18, 1995 - County surveyor was on site to stake the approximate location of the leachate collection header.
- August 21, 1995 - HCDSW personnel will begin the excavation to locate the header. SCS Engineers will be on-site to monitor excavation activities.
- August 23, 1995 - County plumber will be on-site to clean the header.
- August 25, 1995 - Fife Industrial Pipe Company (FIFE), will be on-site to install the suction line and connections to the existing force main. County surveyor will be on-site to document "as-built" conditions.
- August 26, 1995 - HCDSW personnel will backfill the construction area.

After these activities are completed, the HCDSW will install a temporary pump to the system. Final connections and pump controls will be installed when the permanent pump arrives.




Mr. Kim B. Ford, P.E.

August 17, 1995

Page 2

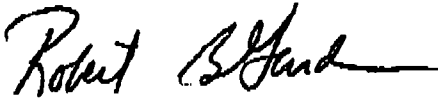
Please call if you have any questions.

Very truly yours,



Larry E. Ruiz

Senior Project Engineer



Robert B. Gardner, P.E.

Vice President

SCS ENGINEERS

LER/RBG:ikm

cc: Patricia Berry, HCDSW

Matt Mathews, HCDSW

Robert Butera, P.E., FDEP - Tampa

Paul Schipfer, HCEPC

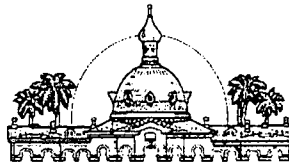
# HILLSBOROUGH COUNTY

Florida

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Daniel A. Kleman

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Ed Turanchik  
Sandra Helen Wilson



Senior Assistant County Administrator  
Patricia Bean

Assistant County Administrators  
Edwin Hunzeker  
Cretta Johnson  
Jimmie Keel  
Robert Taylor

August 14, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**RECEIVED**  
AUG 17 1995

Department of Environmental Protection  
SOUTHWEST DISTRICT

RE: Southeast County Landfill - Leachate Management BY \_\_\_\_\_

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for the complete month of July 1995. In addition, the DSW is providing the July 1995 effluent and leachate field data forms for the Landfill and the daily leachate and collection system evaluation reports.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

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

Attachments

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC



## LEACHATE WATER BALANCE REPORT FORM

JULY 1995

## SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	74,000	374,000	44,985	0	0	42,000	0	0	31,000	0
2	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,415	0	0	NR	0	0	0	0
3	23.2	5.0	92.2	0.1	20.0	16.0	1,189,000	163,000	403,000	44,890	43,549	0	61,000	44,200	0	37,000	36,000
4	23.2	5.0	92.2	0.0	21.0	NR	NR	NR	NR	44,965	0	0	65,000	0	0	0	0
5	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	128,000	403,000	45,585	37,632	0	61,000	42,250	0	37,000	34,000
6	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	117,000	432,000	44,865	43,431	0	61,000	42,250	0	31,000	34,000
7	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	50,000	374,000	45,590	62,287	0	55,000	42,250	0	31,000	34,000
8	23.2	5.0	92.2	0.0	16.0	17.0	1,264,000	51,000	374,000	45,070	6,200	0	49,000	0	0	44,000	
9	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,070	0	0	NR	0	0	0	
10	23.2	5.0	92.2	0.0	32.0	58.0	9,649,000	169,000	403,000	<b>45,065</b>	50,274	0	102,000	42,250	0	37,000	34,000
11	23.2	5.0	92.2	0.0	27.0	58.0	9,649,000	79,000	374,000	45,160	62,308	0	85,000	42,250	0	31,000	34,000
12	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	50,000	317,000	<b>45,103</b>	62,132	0	75,000	36,900	0	31,000	30,000
13	23.2	5.0	92.2	2.2	21.0	58.0	9,649,000	41,000	288,000	45,045	25,041	0	65,000	0	0	68,000	0
14	23.2	5.0	92.2	0.3	20.0	58.0	9,649,000	70,000	288,000	45,315	24,900	0	61,000	0	0	31,000	0
15	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	35,000	259,000	45,360	18,756	0	75,000	0	0	39,000	0
16	23.2	5.0	92.2	0.0	23.0	58.0	9,649,000	74,000	288,000	<b>45,000</b>	0	0	71,000	27,400	0	0	22,000
17	23.2	5.0	92.2	0.6	36.0	59.0	10,112,000	6,000	230,000	<b>45,000</b>	18,697	0	116,000	0	0	42,000	0
18	23.2	5.0	92.2	3.4	35.0	60.0	10,576,000	35,000	202,000	44,900	18,600	0	113,000	0	0	74,000	0
19	23.2	5.0	92.2	1.5	34.0	59.0	10,112,000	86,000	230,000	45,135	12,400	0	109,000	0	0	75,000	0
20	23.2	5.0	92.2	0.2	33.0	58.0	9,649,000	99,000	259,000	<b>45,253</b>	24,982	0	106,000	0	0	68,000	0
21	23.2	5.0	92.2	1.8	33.0	59.0	10,112,000	42,000	230,000	45,370	24,973	0	106,000	0	0	68,000	0
22	23.2	5.0	92.2	0.0	31.0	<b>16.0</b>	412,000	122,000	288,000	45,410	18,697	0	99,000	0	0	68,000	0
23	23.2	5.0	92.2	0.4	NR	NR	NR	NR	NR	44,890	0	0	NR	0	0	0	0
24	23.2	5.0	92.2	0.3	30.0	<b>15.0</b>	324,000	201,000	374,000	<b>44,765</b>	25,086	0	95,000	0	0	37,000	0
25	23.2	5.0	92.2	0.1	28.0	<b>16.0</b>	412,000	117,000	403,000	44,640	43,456	0	88,000	0	0	37,000	0
26	23.2	5.0	92.2	1.7	25.0	<b>16.0</b>	412,000	82,000	403,000	38,120	43,754	0	78,000	0	0	50,000	0
27	23.2	5.0	92.2	2.9	27.0	<b>17.0</b>	499,000	95,000	403,000	45,310	49,239	0	85,000	0	0	49,000	0
28	23.2	5.0	92.2	0.4	30.0	<b>16.0</b>	412,000	88,000	403,000	45,080	42,435	0	95,000	0	0	55,000	0
29	23.2	5.0	92.2	0.4	30.0	<b>17.0</b>	499,000	88,000	403,000	<b>44,978</b>	43,037	0	95,000	0	0	60,000	0
30	23.2	5.0	92.2	1.5	NR	NR	NR	NR	NR	44,875	0	0	NR	0	0	0	
31	23.2	5.0	92.2	0.1	39.0	<b>17.0</b>	499,000	191,000	461,000	45,525	43,221	0	127,000	0	0	54,000	
Total				17.90	711.0	929.0	128,857,000	2,353,000	8,866,000	1,391,734	845,087	0	2,240,000	319,750	0	1,185,000	258,000
Daily Avg				0.58	26.3	35.7	4,956,000	76,000	341,000	45,000	35,000	0	77,000	40,000	0	47,000	32,000

7-95BAL.WB2 Revised by XF, 8/04/95.

## Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
4. Column V, estimated from depth in: Before 7/10/95 Phase IV riser and after 7/10/95 Phase IV Piezometer.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at: Before 7/10/95 118.5 feet and after 7/10/95 117.0 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in italic are substitute for missing data and are based on averaged values.

LEACHATE DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) July, 1995

Date	Sump No. 3 (Inches)	(1) Phase IV Riser	(1) Phase IV Piezometer	Phase III Riser	Sump No. 4 (Inches)	Depth In 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)	Initials
		(Inches)	(Inches)	(Inches)				Contractor (gallons)	County (gallons)			
1	12	16	N/R	4	71	13	390K	—	—	—	0	
2	12	N/R	N/R	—	—	—	—	—	—	—	0	
3	12	16	N/R	4	60	14	420K	24,949	18,600	—	X.1	
4	12	N/R	N/R	—	—	—	—	—	—	—	0	
5	12	16	N/R	3	60	14	420K	18,901	18,731	—	0	
6	12	16	N/R	3	60	15	450K	43,431	—	—	0	
7	12	17	53	4	59	13	390K	43,546	18,741	—	0	
8	12	17	N/R	4	66	13	390K	6,200	—	—	0	
9	12	N/R	N/R	—	—	—	—	—	—	—	0	
10	12	16	58	3	66	14	420K	31,432	18,842		0	
11	12	16	58	3	24	13	390K	43,587	18,721		0	
12	12	16	58	3	61	11	330K	43,400	18,732		0	
13	12	16	58	3	64	10	300K	6,197	18,844		2.2	
14	12	18	58	5	62	10	300K	6,200	18,700		X.3	
15	23	20	58	4	66	9	270K	—	18,756		0	
16	22	21	58	5	60	10	300K	—	—		0	
Leachate Hauled Subtotal												

(1) If depth is greater than 27.6 inches (2.3 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

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LEACHATE DEPTH/QUANTITIES DATA FORM  
SOUTHEAST COUNTY LANDFILL

(Month/Year) July, 1995

Date	Sump No. 3 (inches)	(1) Phase IV Riser	(1) Phase IV Piezometer	Phase III Riser	Sump No. 4 (Inches)	Depth In 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)	Initials
		(Inches)	(inches)	(inches)				Contractor (gallons)	County (gallons)			
17	26	26	59	6	69	8	240 K	—	18,697		X.6	
18	32	32	60	11	N/R	7	210 K	—	18,600		3.4	
19	12	21	59	7	N/R	8	240 K	12,400	—		1.5	
20	12	20	58	5	N/R	9	270 K	6,216	18,766		X.2	
21	12	21	59	6	N/R	8	240 K	6,240	18,733		1.8	
22	12	16	58	6	N/R	10	300 K	—	18,697		0	
23	12	—	—	—	—	—	—	—	—		X.4	
24	12	15	58	4	N/R	13	390 K	25,086			X.3	
25	12	16	57	4	N/R	14	420 K	24,698	18,758		X.1	
26	12	16	59	5	N/R	14	420 K	24,931	18,823		1.7	
27	12	17	59	8	48	14	420 K	24,274	24,965		2.9	
28	12	16	59	7	25	14	420 K	18,000	24,435		X.4	
29	12	17	59	7	N/R	14	420 K	11,721	31,316		X.4	
30	12	—	—	—	—	—	—	—	—		1.5	
31	12	17	59	6	N/R	16	480 K	18,143	25,078		X.1	
Leachate Hauled Subtotal												

(1) If depth is greater than 27.6 inches (2.3 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

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Leachate Hauled Month Total: \_\_\_\_\_

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

(Month/Year) July 1985

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1	14	44,985	—	31,053		—	44,985			
2	N/R	45,415	—	—		—	45,415			
3	20	44,890	44,200	37,198		—	690		N	
4	21	44,965	—	—		—	44,965			
5	20	45,585	42,250	37,400			3,608		N	
6	20	44,865	42,250	30,895			2,615		N	
7	18	45,590	42,250	30,995			3,340		N	
8	16	45,070	—	43,578			45,070			
9	N/R	45,070	—	—			45,070			
10	32	45,065	42,250	37,363			2,815		N	
11	27	45,160	42,250	30,863			2,910		N	
12	24	N/R	36,900	30,979			N/R		N	
13	21	45,045	—	68,184			45,045			
14	20	45,315	—	31,352			45,315			
15	24	45,360	—	37,060			45,360			
16	23	N/R	27,400	—			N/R		N	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

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**EFFLUENT DEPTH/QUANTITIES DATA FORM**  
**SOUTHEAST COUNTY LANDFILL**  
 (Month/Year) July, 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17	36	N/R	—	41,551			N/R			
18	35	44,900	—	74,483			44,900			
19	34	45,135	—	74,513			45,135			
20	33	N/R	—	68,390			N/R			
21	33	45,370	—	68,482			45,370			
22	31	45,410	—	68,465			45,410			
23	N/R	44,890	—	—			44,890			
24	30	N/R	24,300	37,351			N/R		N	
25	28	44,640	43,500	37,195			1,140		N	
26	25	38,120		49,562			38,120			
27	27	45,310		49,150			45,310			
28	30	45,080		54,568			45,080			
29	30	N/R		60,493			N.R.			
30	N/R	44,875		—			44,875			
31	39	45,525		54,338			45,525			

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-31-95

Inspector: M. Matthews

Rainfall: X, 1

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/>: In compliance.</p> <p>No <input checked="" type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (<u>Yes/No</u>)</p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-29-95

Inspector: M. MATTHEWS

Rainfall: X 4

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/>: In compliance.</p> <p>No <input checked="" type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/<u>No</u>)</p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-28-95

Inspector: M. MATTHEWS

Rainfall: 2.4

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/>: In compliance.</p> <p>No <input checked="" type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/No) <u>No</u></p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 50%;">Runoff Type</td> <td style="width: 50%;">To Basin</td> </tr> <tr> <td><input type="checkbox"/> Severe</td> <td><input type="checkbox"/> A</td> </tr> <tr> <td><input type="checkbox"/> Moderate</td> <td><input type="checkbox"/> B</td> </tr> <tr> <td><input type="checkbox"/> Minor</td> <td><input type="checkbox"/> C</td> </tr> <tr> <td></td> <td><input type="checkbox"/> D</td> </tr> </table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-27-95

Inspector: M. Matthews

Rainfall: 2.9

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/>: In compliance.</p> <p>No <input checked="" type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>)</p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-26-95

Inspector: M. MATTHEWS

Rainfall: 1.7

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☐: In compliance.

No ☒: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes ☒ No ☐)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-25-95

Inspector: M. MATTHEWS

Rainfall: X.1

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/> : In compliance.</p> <p>No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/> : In compliance.</p> <p>No <input checked="" type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-24-95

Inspector: M. MATTHEWS

Rainfall: X.3

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☐: In compliance.

No ☒: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-22-95

Inspector: M. MATTHEWS

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-21-95

Inspector: M. MATHERS

Rainfall: 1.8

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/> : In compliance.</p> <p>No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
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<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-20-95

Inspector: M. Matthews

Rainfall: X.2

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 2-19-95

Inspector: M. Matthews

Rainfall: 1.5

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-18-95

Inspector: M. MATTHEWS

Rainfall: 3.4

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/>: In compliance.</p> <p>No <input checked="" type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-17-95

Inspector: M. MATTHEWS

Rainfall: X.6

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-16-95

Inspector: M. MATTHEWS

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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<p>Observed runoff of effluent to stormwater basins? (Yes <input checked="" type="radio"/> No <input 100%;="" 10px;"="" margin-top:="" type="radio/&gt;)&lt;/p&gt;&lt;p&gt;If Yes: Contact supervisor immediately.&lt;/p&gt;&lt;p&gt;Stop spray irrigation immediately and provide the following information:&lt;/p&gt;&lt;table style=" width:=""/><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></p>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-15-95

Inspector: M. MATTHEWS

Rainfall: X.9

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Piezometer Phase IV</b> Is Piezometer Phase IV below 27.6 inches (2.3 feet)? Yes <input type="checkbox"/> : In compliance. No <input checked="" type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Sump No. 4 Phase VI (Stormwater)</b> <input checked="" type="checkbox"/> : Normal Operation <input type="checkbox"/> : If level is less than level in Riser Phase IV, stop pumping to Basin D.										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-14-95

Inspector: M. Matthews

Rainfall: X.3

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input type="checkbox"/>: In compliance.</p> <p>No <input checked="" type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-13-95

Inspector: M. MATTHEWS

Rainfall: 2.2

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
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<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-12-95

Inspector: M. MATHEWS

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

7/11/95

Inspector:

M. Matthews

Rainfall:

0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☐: In compliance.

No ☒: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) (No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:

Called Supervisor AND SCS Engineers



DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-10-95

Inspector: M. MATTHEWS

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/> : In compliance.</p> <p>No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: Called Supervisor and SCS Engineers

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-9-95

Inspector: M. Matthews

Rainfall: 0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

7-8-95

Inspector:

M. MATTHEWS

Rainfall:

0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes N/A: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

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Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-7-95

Inspector: M. Matthews

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
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<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
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	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-6-95

Inspector: M. Matthews

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
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<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-15-95

Inspector: M. Matthews

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-4-95

Inspector: M. MATTHEWS

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-3-95

Inspector: M. MATTHEWS

Rainfall: X.1

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 7-2-95

Inspector: M. Matthews

Rainfall: 0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes ☒ No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 2-1-95

Inspector: M. Matthews

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>10/12</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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# Hillsborough County

Department of Solid Waste • P.O. Box 1110  
Tampa, FL 33601

Sender's Telephone Number: 276-2905

24-Hour FAX Line -- (813) 276-2960



"Together We CAN-DO It"

DATE: 8-4-95

TO: Kim Mel

FAX: 244-6125 SUBJECT: \_\_\_\_\_

FROM: Polly

COMMENTS (If Any):

Sorry about the fax

ella

Total Pages Sent (including cover sheet) 5

Serving our customers with:

Residential & Commercial Collection Services • Curbside Recycling • Resource Recovery  
Household Chemical Collection • Adopt-A-Road & Adopt-A-Shore  
Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services  
Community Collection Centers • Environmental Testing

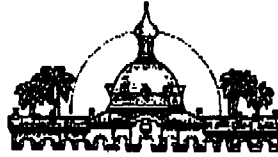
# HILLSBOROUGH COUNTY

Florida

Office of the County Administrator  
Daniel A. Kleman

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Assistant County Administrators  
Edwin Hunsaker  
Cerra Johnson  
Jimmie Keel  
Robert Taylor

August 4, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

As discussed during our August 1, 1995 meeting concerning the Southeast County Landfill (Landfill), the Hillsborough County Department of Solid Waste (DSW) is submitting the installation plan and drawings (hand delivered separately by SCS Engineers) for construction of the new Temporary Pump Station No. 5 in Phase IV of the Landfill.

Although the same information is being provided as part of the DSW's response to the Florida Department of Environmental Protection's (DEP) most recent request for additional information for the permit renewal, the DSW is also presenting the plan separately to facilitate the timely construction of the new temporary pump station.

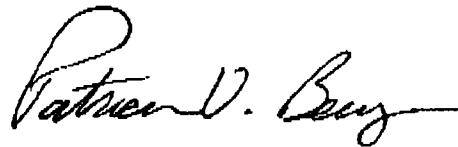
Specifically, the DSW is requesting that the DEP advise the DSW of any objections and/or recommended changes to the proposed concept so that the DSW may proceed to address the leachate management issue in Phase IV.

Once the DEP's concurrence is received, the DSW intends to immediately proceed to implement the plan and, barring any unforeseen circumstances, to have the system installed and pumping within three weeks. As indicated in the attached plan, the DSW will monitor the time meter to calculate the leachate quantity removal separately for Temporary Pump Station No. 3 and Temporary Pump Station No. 5.

Mr. Kim Ford  
August 4, 1995  
Page Two

Please contact me at 276-2908 should you need any additional information or have any questions concerning this submittal.

Sincerely,

A handwritten signature in black ink, appearing to read "Patricia V. Berry". The signature is fluid and cursive, with a large initial "P" and a long horizontal stroke at the end.

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

Attachment

xc: Matt Matthews, DSW  
Larry Ruiz, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

Environmental Consultants

301.115 Highway 301 North  
Suite 200  
Tampa, FL 33619-0211813 744 6125  
T.A.**SCS ENGINEERS**August 3, 1995  
File No. 0890018.35Ms. Patricia V. Berry  
Hillsborough County  
Department of Solid Waste  
P.O. Box 1110  
Tampa, Florida 33601Subject: Installation Plan for the Temporary Pump Station No. 5 in Phase IV  
at the Southeast Landfill, Hillsborough County, Florida

Dear Patty:

On August 1, 1995, a meeting was held with the Hillsborough County Department of Solid Waste (HCDSW), the Florida Department of Environmental Protection (FDEP), and SCS Engineers (SCS). The purpose of the meeting was to discuss the status of the pending permit application for the Southeast County Landfill (SELF) and present to the FDEP the three alternatives evaluated by SCS to lower the leachate depth in the low spot in Phase IV. The alternatives presented were as follows:

- Alternative 1. Install a pump in Phase IV with suction line into the low spot.
- Alternative 2. Install a well point and pump near existing leachate collection header with submersible pump.
- Alternative 3. Install a new pump station at the projected low point in Phase IV, connected to the existing leachate collection header with a submersible pump.

Based on SCS's recommendation to proceed with Alternative 1 (see drawing attached), the FDEP requested that the HCDSW submit a construction plan for approval. This letter provides the HCDSW with guidance for the installation of Alternative 1 (pump and suction line in Phase IV) to increase leachate withdrawal from the low spot.

SCS recommends that the HCDSW consider the following phased procedures to install the new temporary pump and the suction line in Phase IV.

- After approval from the Florida Department of Environmental Protection (FDEP), excavation should begin to locate the existing perimeter tee connection of the 8-inch diameter leachate header pipe that passes through the low spot under Phase IV (See plan on the attached drawing).
- Once the header is located, it should be checked to ensure that there are no obstructions for a distance between 100 to 130 feet within the 8-inch diameter leachate header (See Section A).
- If no obstructions are found, the 4-inch diameter suction line should be installed into the 8-inch diameter header to a distance between 100 to 130 feet (See Section A and detail 4). If the installation is successful, the new



Ms. Patricia V. Berry

August 3, 1995

Page 2

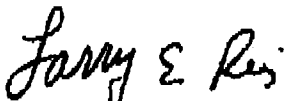
pump should be ordered. The pump capacity (150 gallons per minute @ 18 feet suction-lift) was selected to provide an adequate removal rate based on the expected leachate generation in the landfill and without exceeding the average field suction-lift of 25 feet.

The concrete pad should be installed for the new pump and the discharge connections (valves and flowmeter) should be connected to the existing 8-inch diameter force main leading to the main leachate pump station (See details 1, 2, 3 and 5).

While the HCDSW is waiting for the permanent pump to arrive, a temporary pump can be connected to the suction and discharge lines to begin leachate withdrawal from the low spot. The proposed in-line flow meter will measure leachate removal quantities for both the proposed Temporary Pump Station No. 5 and the existing Temporary Pump Station No. 3. The existing time meter in the existing Temporary Pump Station No. 3 will be monitored so that leachate quantity removal can be monitored separate for both pumps.

If you have any questions, please do not hesitate to call.

Very truly yours,



Larry E. Ruiz  
Senior Project Engineer



Robert B. Gardner, P.E.  
Vice President  
SCS ENGINEERS

RBG/LER:ler  
Enclosures

**1995 YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

Month	Rainfall (in.)	Leachate Arriving at LTRF	Leachate/Effluent Leaving LTRF					Inflow/Outflow Balance For LTRF		
		Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan	4.60	3,104,000	3,166,000	(1) 0	0	0	0	3,104,000	3,166,000	(62,000)
Feb	2.40	4,063,000	2,942,000	(1) 0	0	0	650,000	4,063,000	3,592,000	471,000
March	1.90	3,467,000	2,320,000	(1) 0	0	113,000	932,000	3,467,000	3,365,000	102,000
April	1.60	2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,277,000	348,000
May	2.40	2,302,000	865,725	652,689	0	0	1,000,270	2,302,000	2,518,684	(216,684)
June	8.30	2,311,000	904,543	758,000	0	0	568,520	2,311,000	2,231,063	79,937
YTD Total	21.20	17,872,000	11,322,268	1,803,689	60,000	113,000	3,850,790	17,872,000	17,149,747	722,253

**Notes:**

1. Effluent quantities not measured separately.
2. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

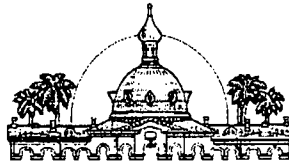
D.E.P.  
AUG - 1 1995  
SOUTH  
HILLSBOROUGH



# HILLSBOROUGH COUNTY

Florida

Office of the County Administrator  
Daniel A. Kleman



## BOARD OF COUNTY COMMISSIONERS

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**RECEIVED**  
JUL 27 1995

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY Patricia Bean  
Hillsborough County Administrator

Assistant County Administrators  
Edwin Hunzeker  
Cretta Johnson  
Jimmie Keel  
Robert Taylor

July 24, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the Landfill's Water Balance Report Form for June 1995 and a portion of July 1995. In addition, the DSW is providing the June 1995 effluent and leachate field data forms for the Landfill and the daily leachate and collection system evaluation reports.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

As you will note, the July 1995 data reflects the change in estimating the maximum depth over the liner from the level in the Phase IV riser to the level in the newly constructed piezometer in Phase IV. Attached, for you information, is an interdepartmental memorandum outlining events which have occurred following the DSW's installation of the suction hose and pump in Pump Station No. 3 and which have interfered with the pumping of the suction pump. Also of significance is the amount of rainfall which occurred during the period from July 13, 1995 through July 21, 1995. These events have limited the DSW's ability to consistently operate the suction pump to determine the impact of the pumping activity on the piezometer leachate level.

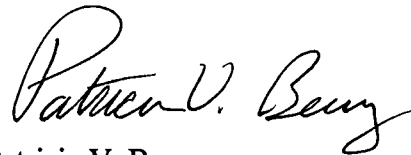
Mr. Kim Ford  
July 24, 1995  
Page Two

**RECEIVED**  
JUL 27 1995

Department of Environmental Protection,  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,



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

**Attachments**

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

## LEACHATE WATER BALANCE REPORT FORM

JULY 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	74,000	374,000	44,985	0	0	42,000	0	0	31,000	0
2	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,415	0	0	NR	0	0	0	0
3	23.2	5.0	92.2	0.1	20.0	16.0	1,189,000	163,000	403,000	44,890	43,549	0	61,000	44,200	0	37,000	36,000
4	23.2	5.0	92.2	0.0	21.0	NR	NR	NR	NR	44,965	0	0	65,000	0	0	0	0
5	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	128,000	403,000	45,585	37,632	0	61,000	42,250	0	37,000	34,000
6	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	117,000	432,000	44,865	43,431	0	61,000	42,250	0	31,000	34,000
7	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	50,000	374,000	45,590	62,287	0	55,000	42,250	0	31,000	34,000
8	23.2	5.0	92.2	0.0	16.0	17.0	1,264,000	51,000	374,000	45,070	6,200	0	49,000	0	0	44,000	0
9	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,070	0	0	NR	0	0	0	0
10	23.2	5.0	92.2	0.0	32.0	58.0	9,649,000	169,000	403,000	45,065	50,274	0	102,000	42,250	0	37,000	34,000
11	23.2	5.0	92.2	0.0	27.0	58.0	9,649,000	79,000	374,000	45,160	62,308	0	85,000	42,250	0	31,000	34,000
12	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	50,000	317,000	45,103	62,132	0	75,000	36,900	0	31,000	30,000
13	23.2	5.0	92.2	2.2	21.0	58.0	9,649,000	41,000	288,000	45,045	25,041	0	65,000	0	0	68,000	0
14	23.2	5.0	92.2	0.3	20.0	58.0	9,649,000	70,000	288,000	45,315	24,900	0	61,000	0	0	31,000	0
15	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	35,000	259,000	45,360	18,756	0	75,000	0	0	39,000	0
16	23.2	5.0	92.2	0.0	23.0	58.0	9,649,000	74,000	288,000	45,000	0	0	71,000	27,400	0	0	22,000
17	23.2	5.0	92.2	0.6	36.0	59.0	10,112,000	6,000	230,000	45,000	18,697	0	116,000	0	0	42,000	0
18	23.2	5.0	92.2	3.4	35.0	60.0	10,576,000	35,000	202,000	44,900	18,600	0	113,000	0	0	74,000	0
19	23.2	5.0	92.2	1.5	34.0	59.0	10,112,000	86,000	230,000	45,135	12,400	0	109,000	0	0	75,000	0
20	23.2	5.0	92.2	0.2	33.0	58.0	9,649,000	99,000	259,000	45,253	24,982	0	106,000	0	0	68,000	0
21	23.2	5.0	92.2	1.8	33.0	59.0	10,112,000	42,000	230,000	45,370	24,973	0	106,000	0	0	68,000	0
22	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
23	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
24	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
26	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
27	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
28	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
29	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
30	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
31	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
Total				10.10	471.0	799.0	125,388,000	1,369,000	5,728,000	948,141	536,162	0	1,478,000	319,750	0	775,000	258,000
Daily Avg				0.48	24.8	44.4	6,966,000	65,000	318,000	45,000	34,000	0	78,000	40,000	0	46,000	32,000

## Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
4. Column V, estimated from depth in: Before 7/10/95 Phase IV riser and after 7/10/95 Phase IV Piezometer.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at: Before 7/10/95 118.5 feet and after 7/10/95 117.0 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in italic are substitute for missing data and are based on averaged values.

7-95BAL.WB2 Revised by LER, 7/24/9

# LEACHATE WATER BALANCE REPORT FORM

JUNE 1995

## SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I Day	II Area (acres)			III Rainfall (in.)	IV Depth in Effluent Pond (in.)	V Est. Depth Over Liner (in.)	VI Est. Landfill Storage (gal.)	VII Leachate Pumped to LTRF (gal.)	VIII Leachate in 500K Tank (gal.)	IX Leachate Treated at LTRF (gal.)	X Total Leachate Hauled (gal.)	XI Leachate Recirculation (gal.)	XII Effluent Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recirculation (gal.)	XV Total Effluent Hauled (gal.)	XVI Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	117,000	317,000	44,668	43,924	0	55,000	40,900	0	25,000	33,000
2	23.2	5.0	92.2	0.4	16.0	16.0	1,189,000	54,000	288,000	45,436	37,361	0	49,000	40,900	0	25,000	33,000
3	23.2	5.0	92.2	0.8	12.0	16.0	1,189,000	70,000	288,000	44,841	24,858	0	36,000	0	0	25,000	0
4	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,898	0	0	NR	0	0	0	0
5	23.2	5.0	92.2	1.5	23.0	16.0	1,189,000	214,000	374,000	45,283	37,400	0	71,000	0	0	37,000	0
6	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	29,000	345,000	45,058	12,449	0	58,000	40,900	0	37,000	33,000
7	23.2	5.0	92.2	0.0	17.0	15.0	1,115,000	77,000	345,000	45,365	31,402	0	52,000	40,900	0	25,000	33,000
8	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	63,000	345,000	44,895	18,594	0	58,000	40,900	0	31,000	33,000
9	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	64,000	345,000	44,837	18,664	0	45,000	40,900	0	37,000	33,000
10	23.2	5.0	92.2	0.0	10.0	16.0	1,189,000	56,000	345,000	43,203	12,500	0	30,000	0	0	12,000	0
11	23.2	5.0	92.2	Trace	NR	NR	NR	NR	NR	41,569	0	0	NR	0	0	0	0
12	23.2	5.0	92.2	0.0	20.0	15.0	1,115,000	203,000	432,000	43,427	31,237	0	61,000	40,900	0	31,000	33,000
13	23.2	5.0	92.2	0.7	15.0	16.0	1,189,000	105,000	461,000	45,284	31,267	0	45,000	0	0	19,000	0
14	23.2	5.0	92.2	0.9	18.0	16.0	1,189,000	73,000	432,000	45,335	56,130	0	55,000	0	0	19,000	0
15	23.2	5.0	92.2	0.0	16.0	16.0	1,189,000	79,000	403,000	45,430	62,140	0	49,000	40,900	0	12,000	33,000
16	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	42,000	374,000	45,660	24,880	0	55,000	40,900	0	43,000	33,000
17	23.2	5.0	92.2	0.0	13.0	15.0	1,115,000	70,000	374,000	45,140	24,937	0	39,000	0	0	19,000	0
18	23.2	5.0	92.2	Trace	NR	NR	NR	NR	NR	45,455	0	0	NR	0	0	0	0
19	23.2	5.0	92.2	1.4	19.0	16.0	1,189,000	176,000	403,000	45,770	56,329	0	58,000	0	0	37,000	0
20	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	107,000	403,000	45,200	62,042	0	42,000	42,020	0	31,000	34,000
21	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	66,000	374,000	45,220	49,872	0	45,000	44,600	0	6,000	36,000
22	23.2	5.0	92.2	0.4	18.0	16.0	1,189,000	57,000	374,000	44,980	12,492	0	55,000	0	0	25,000	0
23	23.2	5.0	92.2	Trace	20.0	16.0	1,189,000	71,000	374,000	45,470	25,053	0	61,000	0	0	38,000	0
24	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	58,000	374,000	45,230	12,328	0	42,000	0	0	62,000	0
25	23.2	5.0	92.2	1.3	NR	NR	NR	NR	NR	45,060	0	0	NR	0	0	0	0
26	23.2	5.0	92.2	0.9	25.0	16.0	1,189,000	185,000	432,000	44,955	37,434	0	78,000	0	0	31,000	0
27	23.2	5.0	92.2	0.0	23.0	16.0	1,189,000	60,000	403,000	45,455	43,795	0	71,000	0	0	19,000	0
28	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	108,000	403,000	44,985	62,658	0	61,000	44,200	0	31,000	36,000
29	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	73,000	374,000	45,175	56,157	0	61,000	44,000	0	31,000	36,000
30	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	34,000	345,000	44,450	18,640	0	55,000	25,600	0	50,000	21,000
Total				8.30	455.0	414.0	30,767,000	2,311,000	9,727,000	1,347,734	904,543	0	1,387,000	568,520	0	758,000	460,000
Daily Avg				0.28	17.5	15.9	1,183,000	77,000	324,000	45,000	35,000	0	53,000	41,000	0	29,000	33,000

### Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured. Column III, Trace is less than 0.01 inches and is not included in total.
4. Column V, estimated from depth in Phase IV riser.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in italic are substitute for missing data and are based on averaged values.

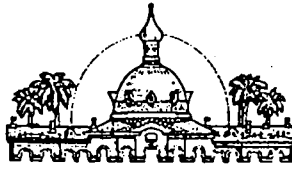
# HILLSBOROUGH COUNTY

Florida

Office of the County Administrator  
Daniel A. Kleman

## BOARD OF COUNTY COMMISSIONERS

Dottie Berger  
Phyllis Busansky  
Joe Chillura  
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## M E M O R A N D U M

DATE: JULY 18, 1995

TO: Patricia V. Berry, Executive Manager

FROM: *MM* Meredith Matthews, Senior Engineer Tech.

SUBJECT: Sump # 3

On 7/13/95 a 3" hose (with pump) was inserted into the 8" Leachate line at sump #3 (as a test) to assist with Leachate removal from the Landfill. On 7/14/95 we encountered electrical problems between sump #3 and the main pump station, at that time sump #3 was put on 2 hours pumping, 6 hours off until 7/17/95. On Monday 7/17/95 we had a total electrical outage at the Landfill for approximately 9 hours. Sump #3 was off from 10 a.m. 7/17 till 12 noon 7/18 due to power outage and contractor looking for electrical problems. At 12 noon 7/18 sump #3 was placed in manual operation until electrical problem is solved. The main pump station will be maned 24 hours a day by county and contractor employees to monitor for problems.

# RECEIVED

JUL 27 1995

Department of Environmental Protection  
SOUTHWEST DISTRICT

## LEACHATE DEPTH/QUANTITIES DATA FORM SOUTHEAST COUNTY LANDFILL

(Month/Year) June, 1995

Date	Sump No. 3 (Inches)	(1) Phase IV Riser (Inches)	(1) Phase IV Piezometer (Inches)	Phase III Riser (Inches)	Sump No. 4 (Inches)	Depth in 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (Inches)	Initials
								Contractor (gallons)	County (gallons)			
1	12	16	—	3	54	11	330K	25,089	18,835		0	
2	12	16	—	4	53	10	300K	24,961	12,400		.4	
3	12	16	—	3	56	10	300K	24,858	—		.8	
4	12	—	—	—	—	—	—	—	—		0	
5	12	16	—	3	60	13	390K	24,917	12,483		1.5	
6	12	16	—	3	60	12	360K	12,449			0	
7	12	15	—	3	66	12	360K	31,402			0	
8	12	16	—	3	65	12	360K	18,594			0	
9	12	16	—	3	65	12	360K	18,664			0	
10	12	16	—	3	65	12	360K	12,500			0	
11	12	—	—	—	—	—	—	—			Trace	
12	12	15	—	3	59	15	450K	31,237			0	
13	12	16	—	3	59	16	480K	31,267			.7	
14	12	16	—	3	66	15	450K	56,130			.9	
15	12	16	—	3	59	14	420K	62,140			0	
16	12	16	—	3	49	13	390K	24,880			0	
Leachate Hauled Subtotal												

(1) If depth is greater than 27.6 inches (2.3 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

(Month/Year) \_\_\_\_\_

Date	Sump No. 3 (Inches)	(1) Phase IV	(1) Phase IV	Phase III	Sump No. 4 (Inches)	Depth in 500K Tank (feet)	Storage 500K Tank (gallons)	Leachate Hauled		Leachate Recirculation (gallons)	Rainfall (inches)	Initials
		Riser (Inches)	Piezometer (Inches)	Riser (Inches)				Contractor (gallons)	County (gallons)			
17	12	15	—	3	60	13	390 K	24,937	—		0	
18	12	—	—		—	—	—	—	—	—	—	
19	12	16	—	3	59	14	420K	37,610	18,719		1.4	
20	12	16	—	3	58	14	420K	43,442	18,600		0	
21	12	16	—	3	59	13	390K	31,194	18,678		0	
22	12	16	—	3	59	13	390K	12,492	—		.4	
23	12	16	—	4	60	13	390K	25,053	—		Trace	
24	12	16	—	3	64	13	390K	12,328	—		0	
25	12	—	—				—	—	—		1.3	
26	12	16	—	3	60	15	450K	37,434	—		.9	
27	12	16	—	4	60	14	420K	31,232	12,563		0	
28	12	16	—	4	59	14	420K	43,932	18,726		0	
29	12	16	—	4	59	13	390K	37,232	18,925		0	
30	12	17	—	5	68	12	360K	18,640	—		0	
31												
Leachate Hauled Subtotal												

(1) If depth is greater than 27.6 inches (2.3 feet): Contact Supervisor Immediately. Complete Evaluation Report Form.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Leachate Hauled Month Total: \_\_\_\_\_

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

(Month/Year) JUNE, 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1	18	44,668	40,900	24,849			3,768		N	
2	16	45,436	40,900	24,752			4,536		N	
3	12	44,841	—	24,969			44,841		—	
4	—	44,898	—	—			44,898		—	
5	23	45,283	—	37,260			45,283		—	
6	19	45,058	40,900	37,349			4,158		N	
7	17	45,365	40,900	24,610			4,465		N	
8	19	44,895	40,900	30,921			3,995		N	
9	15	44,837	40,900	37,225			3,937		N	
10	10	34,972	—	12,356			34,972		—	
11	—	41,569	—	—			41,569		—	
12	20	13,828	40,900	31,073			—		N	
13	15	45,284	—	18,600			45,284	AM	—	
14	18	45,335	—	18,600			45,335		—	
15	16	45,430	40,900	12,400			4,530		N	
16	18	45,660	40,900	43,305			4,760		N	

(1) If yes: Contact Supervisor Immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments:

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**EFFLUENT DEPTH/QUANTITIES DATA FORM**  
**SOUTHEAST COUNTY LANDFILL**  
 (Month/Year) June, 1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17	13	45,140	—	18,722			45,140		—	
18	—	14,685	—	—			14,685		—	
19	19	45,770	—	37,389			45,770		—	
20	14	45,200	42,020	30,944			3,180		N	
21	15	45,220	44,600	6,259			620		N	
22	18	44,980	—	24,970			44,980		—	
23	20	45,470	—	37,832			45,470		—	
24	14	45,230	—	61,533			45,230		—	
25	—	45,060	—	—			45,060		—	
26	25	44,955	—	30,948			44,985		—	
27	23	45,455	—	18,711			45,455			
28	20	44,985	44,200	31,073			785		N	
29	20	45,175	44,000	31,110			1175		N	
30	18	44,450	25,600	49,688			18,850		N	
31	—	—	—	—			—		—	

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-30-95

Inspector: M. MATTHEWS

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes <u>No</u>)</p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table><thead><tr><th>Runoff Type</th><th>To Basin</th></tr></thead><tbody><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></tbody></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-29-95

Inspector: M. Matthews

Rainfall: 0

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Piezometer Phase IV</b> Is Piezometer Phase IV below 27.6 inches (2.3 feet)? Yes <u>N/A</u> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Sump No. 4 Phase VI (Stormwater)</b> <input checked="" type="checkbox"/> : Normal Operation <input type="checkbox"/> : If level is less than level in Riser Phase IV, stop pumping to Basin D.										
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<b>Observed runoff of effluent to stormwater basins? (Yes/No)</b> <div style="text-align: center;">(No)</div> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-28-95

Inspector: M. Matthews

Rainfall: 0

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Piezometer Phase IV</b> Is Piezometer Phase IV below 27.6 inches (2.3 feet)? Yes <u>N/A</u> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
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<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6.27.95

Inspector: M. Matthews

Rainfall: 0

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Piezometer Phase IV</b> Is Piezometer Phase IV below 27.6 inches (2.3 feet)? Yes <u>N/A</u> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6.26.95

Inspector: M. Matthews

Rainfall: X.9

**Riser Phase IV**

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

**Piezometer Phase IV**

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

**Sump No. 4 Phase VI (Stormwater)**

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

**500,000 Gallon Tank at LTRF**

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

**Effluent Pond**

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-23-95

Inspector: M. MATTHEWS

Rainfall: Trace

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/☒)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-22-95

Inspector: M. Matthews

Rainfall: .4

<p><b>Riser Phase IV</b></p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p><b>Piezometer Phase IV</b></p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-21-95

Inspector: M. MATTHEWS

Rainfall: 0

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Piezometer Phase IV</b> Is Piezometer Phase IV below 27.6 inches (2.3 feet)? Yes <u>N/A</u> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
<b>Sump No. 4 Phase VI (Stormwater)</b> <input checked="" type="checkbox"/> : Normal Operation <input type="checkbox"/> : If level is less than level in Riser Phase IV, stop pumping to Basin D.										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-20-95

Inspector: M. Matthews

Rainfall: 0

<p><b>Riser Phase IV</b></p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p><b>Piezometer Phase IV</b></p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p><b>Sump No. 4 Phase VI (Stormwater)</b></p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
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Runoff Type	To Basin									
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<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
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Comments/Remedial Action: \_\_\_\_\_

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Date: 6-19-95  
Inspector: M. Matthews

Rainfall: 1.4

<b>Riser Phase IV</b>	
Is Riser Phase IV below 27.6 inches (2.3 feet)?	
Yes <input checked="" type="checkbox"/> :	In compliance.
No <input type="checkbox"/> :	Increase leachate removal required. Contact supervisor immediately.
<b>Piezometer Phase IV</b>	
Is Piezometer Phase IV below 27.6 inches (2.3 feet)?	
Yes <input checked="" type="checkbox"/> :	In compliance.
No <input type="checkbox"/> :	Increase leachate removal required. Contact supervisor immediately.
<b>Sump No. 4 Phase VI (Stormwater)</b>	
<input checked="" type="checkbox"/> :	Normal Operation
<input type="checkbox"/> :	If level is less than level in Riser Phase IV, stop pumping to Basin D.
<b>500,000 Gallon Tank at LTRF</b>	
<input checked="" type="checkbox"/> :	Normal Operation.
<input type="checkbox"/> :	If level is greater than 11 feet, increase treatment, hauling, or recirculation.
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<b>Effluent Pond</b>	
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<input type="checkbox"/> :	If level is greater than 4 feet, increase irrigation/ recirculation/hauling.
Observed runoff of effluent to stormwater basins? (Yes <input checked="" type="radio"/> No <input type="radio"/> )	
If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:	
Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: \_\_\_\_\_

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-16-95

Inspector: M. Matthews

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-15-95

Inspector: M. MATTHEWS

Rainfall: 0

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
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<input type="checkbox"/> Severe	<input type="checkbox"/> A									
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<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-14-95

Inspector: M. Matthews

Rainfall: .9

<p><b>Riser Phase IV</b></p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p><b>Piezometer Phase IV</b></p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p><b>Sump No. 4 Phase VI (Stormwater)</b></p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p><b>500,000 Gallon Tank at LTRF</b></p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-12-95

Inspector: M. Matthews

Rainfall: 0.0 (Trace)

<p><b>Riser Phase IV</b></p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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Date: 6-9-95

Rainfall: 0.0

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-8-95

Inspector: M. Matthews

Rainfall: 0.0

<p><b>Riser Phase IV</b></p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-7-95

Inspector: M. Matthews

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-6-95

Inspector: M. MATTHEWS

Rainfall: 0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/☒)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-5-95

Inspector: M. MATTHEWS

Rainfall: 1.5

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

6.2.95

Inspector:

M. Matthews

Rainfall:

0.4

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒ No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

To Basin

☐ Severe

☐ A

☐ Moderate

☐ B

☐ Minor

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 6-1-95  
Inspector: M. Matthews

Rainfall: 0.0

<b>Riser Phase IV</b> Is Riser Phase IV below 27.6 inches (2.3 feet)? Yes <input checked="" type="checkbox"/> : In compliance. No <input type="checkbox"/> : Increase leachate removal required. Contact supervisor immediately.										
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	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_  
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DATE: 6-1-95

TIME: 0800

Leachate Treated (gallons)	44 668
Treated Effluent Stored (gallons)	3 768
Treated Effluent Sprayed (gallons)	40 900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Honblower 8015B



Fri.

Date: 6-2-95

Time: 0800

Leachate Treated (gallons)	45436
Treated Effluent Stored (gallons)	4536
Treated Effluent Sprayed (gallons)	40,900

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

DATE: 6-3-95

TIME: 0800

Leachate Treated (gallons)	44841
Treated Effluent Stored (gallons)	44841
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Homblower 8015B

DATE: 6-4-95

TIME: 0800

Leachate Treated (gallons)	44 898
Treated Effluent Stored (gallons)	44 898
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Howblower 8015B

DATE: 6-5-95

TIME: 0800

Leachate Treated (gallons)	45 283
Treated Effluent Stored (gallons)	45 283
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RA. N

Operator Signature: William J. Houtlower 8015B

DATE: 6-6-75

TIME: 0800

Leachate Treated (gallons)	45058
Treated Effluent Stored (gallons)	4158
Treated Effluent Sprayed (gallons)	40900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Homblower 8015B

DATE: 6-7-95

TIME: 0800

Leachate Treated (gallons)	45365
Treated Effluent Stored (gallons)	4465
Treated Effluent Sprayed (gallons)	40,900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 6-8-95

TIME: 0800

Leachate Treated (gallons)	44 895
Treated Effluent Stored (gallons)	3995
Treated Effluent Sprayed (gallons)	40,900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

DATE: 6-9-95

TIME: 0800

Leachate Treated (gallons)	44837
Treated Effluent Stored (gallons)	3937
Treated Effluent Sprayed (gallons)	40,900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 80156



DATE: 6-10-95

TIME: 0800

Leachate Treated (gallons)	34 972
Treated Effluent Stored (gallons)	34 972
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: Number in Question (electrical)

Operator Signature: William J. Homblower 8015B

DATE: 6-11-95

TIME: 0800

Leachate Treated (gallons)	41,569
Treated Effluent Stored (gallons)	41,569
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 6-12-75

TIME: 0800

Leachate Treated (gallons)	13828
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	40,900

??

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: Number in Question (Electrical)

Operator Signature: William J. Honblower 8015B

DATE: 6-13-75

TIME: 0800

Leachate Treated (gallons)	45284
Treated Effluent Stored (gallons)	45284
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAIN Effect 48 hour wait.

Operator Signature: William S. Hornblower 8015B

DATE: 6-14-95

TIME: 0800

Leachate Treated (gallons)	45335
Treated Effluent Stored (gallons)	45335
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAIN effect 48 hour wait.

Operator Signature: William S. Hornblower 8015B

DATE: 6-15-95

TIME: 0800

Leachate Treated (gallons)	45430
Treated Effluent Stored (gallons)	4530
Treated Effluent Sprayed (gallons)	40,900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William J Homblower 8015B

DATE: 6-16-95

TIME: 0800

Leachate Treated (gallons)	45660
Treated Effluent Stored (gallons)	4760
Treated Effluent Sprayed (gallons)	40900

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

SAT

DATE: 6-17-95

TIME: 0800

Leachate Treated (gallons)	45140
Treated Effluent Stored (gallons)	45140
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B



500

DATE: 6-18-95

TIME: 0800

Leachate Treated (gallons)	14685
Treated Effluent Stored (gallons)	14685
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: NO SPRAY

Operator Signature: William S. Hornblower 8015B

DATE: 6-19-95

TIME: 0800

Leachate Treated (gallons)	45770
Treated Effluent Stored (gallons)	45770
Treated Effluent Sprayed (gallons)	<del>0</del>

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAIN NO SPRAY

Operator Signature: William J. Hornblower 8015B

DATE: 6-20-95

TIME: 0800

Leachate Treated (gallons)	45200
Treated Effluent Stored (gallons)	3180
Treated Effluent Sprayed (gallons)	42020

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 6-21-75

TIME: 0800

Leachate Treated (gallons)	45220
Treated Effluent Stored (gallons)	620
Treated Effluent Sprayed (gallons)	44600

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 6-22-75

TIME: 0800

Leachate Treated (gallons)	44980
Treated Effluent Stored (gallons)	44980
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAIN NO SPRAY

Operator Signature: William S. Hornblower 8015B

DATE: 6-23-95

TIME: 0800

Leachate Treated (gallons)	45470
Treated Effluent Stored (gallons)	45470
Treated Effluent Sprayed (gallons)	<del>0</del>

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAIN

Operator Signature: William S. Hornblower 8015B

DATE: 6-24-95

TIME: 0800

Leachate Treated (gallons)	45 230
Treated Effluent Stored (gallons)	45 230
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 6-25-95

TIME: 0800

Leachate Treated (gallons)	45060
Treated Effluent Stored (gallons)	45060
Treated Effluent Sprayed (gallons)	<del>0</del>

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B



DATE: 6-26-95

TIME: 0800

Leachate Treated (gallons)	44955
Treated Effluent Stored (gallons)	44985
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAI, 4

Operator Signature: William J. Hornblower 8015B

DATE: 6-27-95

TIME: 0800

Leachate Treated (gallons)	45455
Treated Effluent Stored (gallons)	45455
Treated Effluent Sprayed (gallons)	0

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: Rain

Operator Signature: William J. Hornblower 8015B

DATE: 6-28-95

TIME: 0800

Leachate Treated (gallons)	44 985
Treated Effluent Stored (gallons)	785
Treated Effluent Sprayed (gallons)	44,200

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Homblower 8015B

DATE: 6-29-95

TIME: 0800

Leachate Treated (gallons)	45175
Treated Effluent Stored (gallons)	1175
Treated Effluent Sprayed (gallons)	44000

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 6-30-95

TIME: 0800

Leachate Treated (gallons)	44450
Treated Effluent Stored (gallons)	18850
Treated Effluent Sprayed (gallons)	25600

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: RAIN Began @ 11:00

Operator Signature: William S. Hornblower 8015B

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**FAX COVER**

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**TO:**DATE: 7/18/95NAME: Mr. Kim Ford, P.E.COMPANY NAME: FOEPFAX NUMBER: 744-6125PHONE NUMBER: 744-6100 (382)

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**SCS ENGINEERS**

Environmental Consultants

3012 U.S. Highway 301 North  
Suite 700  
Tampa, Florida 33619Phone 813 621-0080  
FAX 813 623-6757FROM: Larry E. RuizJOB/OVERHEAD NUMBER: 0990018.35NUMBER OF PAGES: 4**COMMENTS:**

As requested, please attached find the leachate report forms for May, June and partial July 1995.

The forms were advised to include calculated values for missing data of leachate treated. The July form was adjusted to include readings from the piezometer and the new contours of the low area in Phase IV.

Please call if you have any questions.

Thanks,Larry Ruiz

# DRAFT

## LEACHATE WATER BALANCE REPORT FORM

MAY 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	22.0	15.0	1,115,000	193,000	317,000	52,154	58,680	0	68,000	48,600	0	24,800	39,000
2	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	45,000	259,000	40,190	82,017	0	55,000	48,600	0	12,400	39,000
3	23.2	5.0	92.2	0.0	23.0	15.0	1,115,000	82,000	259,000	44,243	37,362	0	71,000	48,600	0	24,800	39,000
4	23.2	5.0	92.2	0.0	24.0	15.0	1,115,000	69,000	230,000	35,584	82,487	0	75,000	48,600	0	18,661	39,000
5	23.2	5.0	92.2	0.6	29.0	16.0	1,189,000	74,000	202,000	46,207	56,157	0	92,000	48,610	0	24,800	39,000
6	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	53,000	173,000	44,174	37,262	0	55,000	0	0	18,448	0
7	23.2	5.0	92.2	0.0	NR	15.0	1,115,000	40,000	173,000	39,940	0	0	NR	0	0	0	0
8	23.2	5.0	92.2	0.0	35.0	15.0	1,115,000	115,000	173,000	46,630	68,268	0	113,000	48,600	0	24,800	39,000
9	23.2	5.0	92.2	0.0	32.0	15.0	1,115,000	88,000	173,000	44,537	43,470	0	102,000	39,600	0	18,600	32,000
10	23.2	5.0	92.2	0.0	29.0	20.0	1,609,000	41,000	144,000	44,578	24,957	0	92,000	39,600	0	24,853	32,000
11	23.2	5.0	92.2	0.0	29.0	17.0	1,264,000	29,000	115,000	44,982	12,400	0	92,000	39,600	0	30,944	32,000
12	23.2	5.0	92.2	0.0	20.0	17.0	1,264,000	93,000	144,000	45,385	18,413	0	61,000	39,600	0	31,060	32,000
13	23.2	5.0	92.2	0.0	NR	16.0	1,189,000	78,000	173,000	48,750	0	0	NR	0	0	0	0
14	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	42,840	0	0	NR	0	0	0	0
15	23.2	5.0	92.2	0.0	32.0	16.0	1,189,000	190,000	230,000	45,961	43,608	0	102,000	48,600	0	24,787	39,000
16	23.2	5.0	92.2	0.0	28.0	16.0	1,189,000	65,000	202,000	44,213	49,862	0	88,000	48,600	0	18,714	39,000
17	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	60,000	173,000	45,480	43,443	0	81,000	48,600	0	24,847	39,000
18	23.2	5.0	92.2	0.0	22.0	16.0	1,189,000	64,000	173,000	45,470	18,888	0	68,000	37,600	0	30,966	30,000
19	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	87,000	202,000	45,625	12,561	0	45,000	37,600	0	37,417	30,000
20	23.2	5.0	92.2	0.9	16.0	15.0	1,115,000	46,000	202,000	45,780	0	0	45,000	0	0	0	C
21	23.2	5.0	92.2	0.2	20.0	NR	NR	NR	NR	45,030	0	0	61,000	0	0	0	C
22	23.2	5.0	92.2	0.0	38.0	15.0	1,115,000	192,000	259,000	45,470	43,483	C	124,000	37,600	0	24,655	30,000
23	23.2	5.0	92.2	0.0	33.0	16.0	1,189,000	36,000	230,000	45,910	18,891	C	106,000	48,600	0	18,623	39,000
24	23.2	5.0	92.2	0.0	29.0	16.0	1,189,000	77,000	230,000	45,532	31,197	C	92,000	48,600	0	24,862	39,000
25	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	76,000	230,000	45,154	31,137	0	81,000	48,600	0	37,968	39,000
26	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	58,000	230,000	45,154	12,400	0	55,000	48,600	0	62,614	39,000
27	23.2	5.0	92.2	0.0	10.0	16.0	1,189,000	74,000	259,000	44,884	0	0	30,000	0	0	0	0
28	23.2	5.0	92.2	0.7	NR	NR	NR	NR	NR	44,614	0	0	NR	0	0	0	0
29	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	125,000	238,000	45,232	6,340	0	81,000	0	0	37,184	0
30	23.2	5.0	92.2	0.0	24.0	16.0	1,189,000	82,000	258,000	45,131	37,314	0	75,000	48,600	0	31,041	39,000
31	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	70,000	258,000	45,030	25,128	0	58,000	48,600	0	24,845	39,000
Total				2.40	661.0	441.0	32,900,000	2,302,000	6,019,000	1,389,714	865,725	0	2,072,000	1,000,270	0	652,689	803,000
Daily Avg				0.08	24.5	15.8	1,175,000	74,000	194,000	45,000	36,000	0	77,000	45,000	0	27,000	37,000

may.lea Revsed by LER, 7/18/

### Notes:

- NR = No Records.
- Column II, total area with waste is 120.4 acres (Phases I-IV).
- Columns II and IV, field measured.
- Column V, estimated from depth in Phase IV riser.
- Column VI, estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
- Column VII, calculated from Column IX - Column X - Change in Storage of 500,000 gal. tank.
- Column VIII, calculated from depth in 500,000 gal. leachate tank.
- Columns IX and XIII, quantities from flow meters.
- Columns X, XI, XIV and XV, quantities calculated from truck weight.
- Column XV, 80.8% of the daily values from Columns X, XIII and XIV.
- Values in shaded cells substitute for missing data and are based on averaged values.

07-19-95 03:02PM

FROM SCS ENGINEERS TAMPA

TO 7446125

P002/004



# DRAFT

## LEACHATE WATER BALANCE REPORT FORM

JUNE 1996

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I Day	II Area (acres)			III Rainfall (in.)	IV Depth in Effluent Pond (in.)	V Est. Depth Over Liner (in.)	VI Est. Landfill Storage (gal.)	VII Leachate Pumped to LTRF (gal.)	VIII Leachate in 500K Tank (gal.)	IX Leachate Treated at LTRF (gal.)	X Total Leachate Hauled (gal.)	XI Leachate Recirculation (gal.)	XII Effluent Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recirculation (gal.)	XV Total Effluent Hauled (gal.)	XVI Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	117,000	317,000	44,668	43,924	0	55,000	40,900	0	25,000	33,000
2	23.2	5.0	92.2	0.4	16.0	16.0	1,189,000	54,000	288,000	45,436	37,361	0	49,000	40,900	0	25,000	33,000
3	23.2	5.0	92.2	0.8	12.0	16.0	1,189,000	70,000	288,000	44,841	24,858	0	36,000	0	0	25,000	0
4	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,898	0	0	NR	0	0	0	0
5	23.2	5.0	92.2	1.5	23.0	16.0	1,189,000	214,000	374,000	45,283	37,400	0	71,000	0	0	37,000	0
6	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	29,000	345,000	45,058	12,448	0	58,000	40,900	0	37,000	33,000
7	23.2	5.0	92.2	0.0	17.0	15.0	1,115,000	77,000	345,000	45,385	31,402	0	62,000	40,900	0	25,000	33,000
8	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	63,000	345,000	44,895	18,594	0	58,000	40,900	0	31,000	33,000
9	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	64,000	345,000	44,837	18,664	0	45,000	40,900	0	37,000	33,000
10	23.2	5.0	92.2	0.0	10.0	16.0	1,189,000	56,000	345,000	43,203	12,500	0	30,000	0	0	12,000	0
11	23.2	5.0	92.2	NR	NR	NR	NR	NR	NR	41,589	0	0	NR	0	0	0	0
12	23.2	5.0	92.2	0.0	20.0	15.0	1,115,000	203,000	432,000	43,427	31,237	0	61,000	40,900	0	31,000	33,000
13	23.2	5.0	92.2	0.7	15.0	16.0	1,189,000	105,000	461,000	45,284	31,267	0	45,000	0	0	19,000	0
14	23.2	5.0	92.2	0.9	18.0	16.0	1,189,000	73,000	432,000	45,335	56,130	0	55,000	0	0	19,000	0
15	23.2	5.0	92.2	0.0	16.0	16.0	1,189,000	79,000	403,000	45,430	82,140	0	48,000	40,900	0	12,000	33,000
16	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	42,000	374,000	45,660	24,880	0	55,000	40,900	0	43,000	33,000
17	23.2	5.0	92.2	0.0	13.0	15.0	1,115,000	70,000	374,000	45,140	24,937	0	39,000	0	0	19,000	0
18	23.2	5.0	92.2	NR	NR	NR	NR	NR	NR	45,455	0	0	NR	0	0	0	0
19	23.2	5.0	92.2	1.4	19.0	16.0	1,189,000	176,000	403,000	45,770	56,329	0	58,000	0	0	37,000	0
20	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	107,000	403,000	45,200	62,042	0	42,000	42,020	0	31,000	34,000
21	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	66,000	374,000	45,220	49,872	0	45,000	44,600	0	6,000	36,000
22	23.2	5.0	92.2	0.4	18.0	16.0	1,189,000	57,000	374,000	44,880	12,492	0	55,000	0	0	25,000	0
23	23.2	5.0	92.2	NR	20.0	16.0	1,189,000	71,000	374,000	45,470	25,053	0	81,000	0	0	38,000	0
24	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	58,000	374,000	45,230	12,328	0	42,000	0	0	62,000	0
25	23.2	5.0	92.2	1.3	NR	NR	NR	NR	NR	45,060	0	0	NR	0	0	0	0
26	23.2	5.0	92.2	0.9	25.0	16.0	1,189,000	185,000	432,000	44,955	37,434	0	78,000	0	0	31,000	0
27	23.2	5.0	92.2	0.0	23.0	16.0	1,189,000	60,000	403,000	45,455	43,795	0	71,000	0	0	19,000	0
28	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	108,000	403,000	44,985	62,658	0	61,000	44,200	0	31,000	36,000
29	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	73,000	374,000	45,175	56,157	0	61,000	44,000	0	31,000	36,000
30	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	34,000	345,000	44,450	18,640	0	55,000	25,600	0	50,000	21,000
Total				8.30	455.0	414.0	30,767,000	2,311,000	9,727,000	1,347,734	904,543	0	1,387,000	568,520	0	755,000	460,000
Daily Avg				0.31	17.5	15.9	1,183,000	77,000	324,000	45,000	35,000	0	53,000	41,000	0	29,000	33,000

June 1996 Revised by LER, 7/17/95.

### Notes:

1. NR = No Records
2. Column I: total area with waste is 120.4 acres (Phases I-V).
3. Columns II and IV: field measured
4. Column V: estimated from depth in Phase IV liner.
5. Column VI: estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
6. Column VII: calculated from Column IX - Column X - Change in Storage of 500,000 gal. tanks
7. Column VIII: calculated from depth in 500,000 gal. leachate tank
8. Columns IX and XIII: quantities from flow meters
9. Columns X, XI, XIV, and XV: quantities calculated from truck weight
10. Column XVI: 80-85% of the daily values from Columns XI, XIII and XIV
11. Values in shaded cells substitute for missing data and are based on averaged values.

07-19-95 03:02PM

FROM SCS ENGINEERS TAMPA

TO 7446125

P003/004



# DRAFT

## LEACHATE WATER BALANCE REPORT FORM

JULY 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I Day	II Area (acres)			III Rainfall (in.)	IV Depth in Effluent Pond (in.)	V Est. Depth Over Liner (in.)	VI Est. Landfill Storage (gal.)	VII Leachate Pumped to LTRF (gal.)	VIII Leachate in 500K Tank (gal.)	IX Leachate Treated at LTRF (gal.)	X Total Leachate Hauled (gal.)	XI Leachate Recirculation (gal.)	XII Effluent Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recirculation (gal.)	XV Total Effluent Hauled (gal.)	XVI Landfill Evapor. (gal.)
	final	active	mt.														
1	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	74,000	374,000	44,985	0	0	42,000	0	0	31,000	0
2	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,415	0	0	NR	0	0	0	0
3	23.2	5.0	92.2	0.1	20.0	16.0	1,189,000	163,000	403,000	44,890	43,549	0	61,000	44,200	0	37,000	36,000
4	23.2	5.0	92.2	0.0	21.0	NR	NR	NR	NR	44,965	0	0	65,000	0	0	0	0
5	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	128,000	403,000	45,585	37,832	0	61,000	42,250	0	37,000	34,000
6	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	117,000	432,000	44,865	43,431	0	61,000	42,250	0	31,000	34,000
7	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	50,000	374,000	45,590	62,287	0	65,000	42,250	0	31,000	34,000
8	23.2	5.0	92.2	0.0	16.0	17.0	1,264,000	51,000	374,000	45,070	6,200	0	49,000	0	0	44,000	0
9	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,070	0	0	NR	0	0	0	0
10	23.2	5.0	92.2	0.0	32.0	58.0	9,649,000	169,000	403,000	45,085	50,274	0	102,000	42,250	0	37,000	34,000
11	23.2	5.0	92.2	0.0	27.0	58.0	9,649,000	79,000	374,000	45,160	62,308	0	85,000	42,250	0	31,000	34,000
12	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	50,000	317,000	45,103	62,132	0	75,000	36,900	0	31,000	30,000
13	23.2	5.0	92.2	2.2	21.0	58.0	9,649,000	41,000	288,000	45,045	25,041	0	65,000	0	0	68,000	0
14	23.2	5.0	92.2	0.3	20.0	58.0	9,649,000	70,000	288,000	45,315	24,900	0	61,000	0	0	31,000	0
15	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	35,000	259,000	45,360	18,756	0	75,000	0	0	37,000	0
16	23.2	5.0	92.2	0.0	23.0	58.0	9,649,000	74,000	288,000	45,000	0	0	71,000	27,400	0	0	22,000
17	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
18	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
19	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
20	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
21	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
22	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
23	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
24	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
25	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
26	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
27	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
28	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
29	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
30	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
31	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	0
Total				2.60	300.0	504.0	74,827,000	1,101,000	4,577,000	722,483	436,510	0	928,000	319,750	0	446,000	258,000
Daily Avg				0.16	21.4	38.8	5,756,000	69,000	352,000	45,000	40,000	0	66,000	40,000	0	37,000	32,000

July 1995 Revised by LER, 7/18/95.

### Notes:

1. NR = No Records
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns I and IV field measured
4. Column V estimated from depth in: Before 7/10/95 Phase IV riser and after 7/10/95 Phase IV Piezometer.
5. Column VI estimated from Column V and approximate volume with top of clay elevation at: Before 7/10/95 118.5 feet and after 7/10/95 117.0 feet
6. Column VII, calculated from Column IX + Column X - Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII quantities from flow meters
9. Columns X, XI, XIV and XV quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, X, and XIV
11. Values in shaded cells substitute for missing data and are based on averaged values

07-19-95 03:02PM

FROM SCS ENGINEERS TAMPA

TO 7446125

P004/004

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**FAX COVER**

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**TO:**DATE: 7/18/95NAME: Mr. Kim Ford, P.E.COMPANY NAME: FOEPFAX NUMBER: 744-6125PHONE NUMBER: 744-6100 (382)

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**SCS ENGINEERS**

Environmental Consultants

3012 U.S. Highway 301 North  
Suite 700  
Tampa, Florida 33619Phone 813 621-0080  
FAX 813 623-6757FROM: Larry E. RuizJOB/OVERHEAD NUMBER: 0990018.35NUMBER OF PAGES: 4**COMMENTS:**

As requested, please attached find the leachate report forms for May, June and partial July 1995.

The forms were adjusted to include calculated values for missing data of leachate treated. The July form was adjusted to include readings from the piezometer and the new contours of the low area in Phase IV.

Please call if you have any questions.

ThanksLarry Ruiz

# DRAFT

## LEACHATE WATER BALANCE REPORT FORM MAY 1995 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTR <sup>c</sup> (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTR <sup>c</sup> (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	22.0	15.0	1,115,000	183,000	317,000	52,104	68,680	0	58,000	48,600	0	24,800	39,000
2	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	45,000	259,000	40,190	62,017	0	55,000	48,600	0	12,400	39,000
3	23.2	5.0	92.2	0.0	23.0	15.0	1,115,000	82,000	259,000	44,243	37,362	0	71,000	48,600	0	24,800	39,000
4	23.2	5.0	92.2	0.0	24.0	15.0	1,115,000	68,000	230,000	35,584	62,487	0	75,000	48,600	0	18,661	39,000
5	23.2	5.0	92.2	0.6	29.0	16.0	1,189,000	74,000	202,000	46,207	56,157	0	92,000	48,610	0	24,800	39,000
6	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	53,000	173,000	44,174	37,262	0	55,000	0	0	18,448	0
7	23.2	5.0	92.2	0.0	NR	15.0	1,115,000	40,000	173,000	39,540	0	0	NR	0	0	0	0
8	23.2	5.0	92.2	0.0	35.0	15.0	1,115,000	115,000	173,000	46,530	68,268	0	113,000	48,600	0	24,800	39,000
9	23.2	5.0	92.2	0.0	32.0	15.0	1,115,000	88,000	173,000	44,537	43,470	0	102,000	39,600	0	18,600	32,000
10	23.2	5.0	92.2	0.0	29.0	20.0	1,608,000	41,000	144,000	44,578	24,957	0	92,000	39,600	0	24,853	32,000
11	23.2	5.0	92.2	0.0	29.0	17.0	1,264,000	93,000	115,000	115,000	12,400	0	92,000	39,600	0	30,944	32,000
12	23.2	5.0	92.2	0.0	20.0	17.0	1,284,000	93,000	144,000	45,385	18,413	0	81,000	39,600	0	31,060	32,000
13	23.2	5.0	92.2	0.0	NR	16.0	1,189,000	78,000	173,000	48,750	0	0	NR	0	0	0	0
14	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	42,840	0	0	NR	0	0	0	0
15	23.2	5.0	92.2	0.0	32.0	16.0	1,139,000	190,000	230,000	45,961	43,808	0	102,000	48,600	0	24,787	39,000
16	23.2	5.0	92.2	0.0	28.0	16.0	1,139,000	65,000	202,000	44,213	49,862	0	88,000	48,600	0	18,714	39,000
17	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	60,000	173,000	45,480	43,443	0	81,000	48,600	0	24,847	39,000
18	23.2	5.0	92.2	0.0	22.0	16.0	1,189,000	64,000	173,000	45,470	18,888	0	68,000	37,600	0	30,966	30,000
19	23.2	5.0	92.2	0.0	15.0	16.0	1,199,000	202,000	202,000	12,561	0	0	45,000	37,600	0	37,417	30,000
20	23.2	5.0	92.2	0.9	16.0	15.0	1,115,000	46,000	202,000	45,780	0	0	49,000	0	0	0	0
21	23.2	5.0	92.2	0.2	20.0	NR	NR	NR	NR	45,030	0	0	61,000	0	0	0	0
22	23.2	5.0	92.2	0.0	38.0	15.0	1,115,000	259,000	259,000	45,910	43,483	0	124,000	37,600	0	24,655	30,000
23	23.2	5.0	92.2	0.0	33.0	16.0	1,189,000	38,000	230,000	45,910	18,891	0	106,000	48,600	0	18,623	39,000
24	23.2	5.0	92.2	0.0	29.0	16.0	1,189,000	230,000	230,000	31,197	0	0	92,000	48,600	0	24,862	39,000
25	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	76,000	230,000	45,154	31,137	0	81,000	48,600	0	37,988	39,000
26	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	58,000	230,000	45,154	12,400	0	55,000	48,600	0	62,614	39,000
27	23.2	5.0	92.2	0.0	10.0	16.0	1,189,000	259,000	259,000	0	0	0	30,000	0	0	0	0
28	23.2	5.0	92.2	0.7	NR	NR	NR	NR	NR	44,514	0	0	NR	0	0	0	0
29	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	125,000	288,000	45,232	6,340	0	81,000	0	0	37,184	0
30	23.2	5.0	92.2	0.0	24.0	16.0	1,189,000	288,000	288,000	37,314	0	0	75,000	48,600	0	37,041	39,000
31	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	70,000	288,000	45,030	25,128	0	58,000	48,600	0	24,845	39,000
Total				2.40	681.0	441.0	32,900,000	2,302,000	6,019,000	1,389,714	865,725	0	2,072,000	1,000,270	0	652,689	803,000
Daily Avg				0.08	24.5	15.8	1,175,000	74,000	194,000	45,000	36,000	0	77,000	45,000	0	27,000	37,000

may/lea Revised by LER, 7/18/95

### Notes:

1. NR = No Records
2. Column I, total area with waste is 120.4 acres (Phases I-IV)
3. Columns III and IV, field measured
4. Column V, estimated from depth in Phase IV riser.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 113.5 feet
6. Column VII, calculated from Column IX - Column X - Change in Storage of 500,000 gal tank
7. Column VIII, calculated from depth in 500,000 gal. leachate tank
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns X, XIII and XV
11. Values in shaded cells substitute for missing data and are based on averaged values

07-18-95 12:46PM

FROM SCS INC/ENGINEERS TAMPA

TO 7446125

P002/004

# DRAFT

## LEACHATE WATER BALANCE REPORT FORM

JUNE 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	final	active	int.	Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recir- culation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recir- culation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	18.0	18.0	1,189,000	117,000	317,000	44,668	43,924	0	55,000	40,900	0	25,000	33,000
2	23.2	5.0	92.2	0.4	16.0	16.0	1,189,000	54,000	288,000	45,436	37,361	0	49,000	40,900	0	25,000	33,000
3	23.2	5.0	92.2	0.8	12.0	16.0	1,189,000	70,000	288,000	44,841	24,858	0	36,000	0	0	25,000	0
4	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	44,888	0	0	NR	0	0	0	0
5	23.2	5.0	92.2	1.5	23.0	16.0	1,189,000	214,000	374,000	45,283	37,400	0	71,000	0	0	37,000	33,000
6	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	29,000	345,000	45,058	12,449	0	58,000	40,900	0	37,000	33,000
7	23.2	5.0	92.2	0.0	17.0	15.0	1,115,000	77,000	345,000	45,355	31,402	0	52,000	40,900	0	25,000	33,000
8	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	63,000	345,000	44,895	18,594	0	58,000	40,900	0	31,000	33,000
9	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	64,000	345,000	44,837	18,664	0	45,000	40,900	0	37,000	33,000
10	23.2	5.0	92.2	0.0	10.0	16.0	1,189,000	NR	345,000	NR	12,500	0	30,000	0	0	12,000	0
11	23.2	5.0	92.2	NR	NR	NR	NR	NR	NR	41,559	0	0	NR	0	0	0	0
12	23.2	5.0	92.2	0.0	20.0	15.0	1,115,000	NR	432,000	NR	31,237	0	61,000	40,900	0	31,000	33,000
13	23.2	5.0	92.2	0.7	15.0	16.0	1,189,000	105,000	461,000	45,234	31,287	0	45,000	0	0	19,000	0
14	23.2	5.0	92.2	0.9	18.0	16.0	1,189,000	73,000	432,000	45,335	56,130	0	55,000	0	0	19,000	0
15	23.2	5.0	92.2	0.0	16.0	15.0	1,189,000	79,000	403,000	45,430	52,140	0	49,000	40,900	0	12,000	33,000
16	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	42,000	374,000	45,660	24,880	0	55,000	40,900	0	43,000	33,000
17	23.2	5.0	92.2	0.0	13.0	15.0	1,115,000	70,000	374,000	45,140	24,937	0	39,000	0	0	19,000	0
18	23.2	5.0	92.2	NR	NR	NR	NR	NR	NR	NR	0	0	NR	0	0	0	0
19	23.2	5.0	92.2	1.4	19.0	16.0	1,189,000	176,000	403,000	45,770	56,329	0	58,000	0	0	37,000	0
20	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	107,000	403,000	45,200	62,042	0	42,000	42,020	0	31,000	34,000
21	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	66,000	374,000	45,220	49,872	0	45,000	44,800	0	6,000	36,000
22	23.2	5.0	92.2	0.4	18.0	16.0	1,189,000	57,000	374,000	44,980	12,492	0	55,000	0	0	25,000	0
23	23.2	5.0	92.2	NR	20.0	16.0	1,189,000	71,000	374,000	45,470	25,053	0	61,000	0	0	38,000	0
24	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	58,000	374,000	45,230	12,328	0	42,000	0	0	62,000	0
25	23.2	5.0	92.2	1.3	NR	NR	NR	NR	NR	45,060	0	0	NR	0	0	0	0
26	23.2	5.0	92.2	0.9	25.0	16.0	1,189,000	185,000	432,000	44,955	37,434	0	78,000	0	0	31,000	0
27	23.2	5.0	92.2	0.0	23.0	16.0	1,189,000	60,000	403,000	45,455	43,795	0	71,000	0	0	19,000	0
28	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	108,000	403,000	44,985	62,858	0	61,000	44,200	0	31,000	36,000
29	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	73,000	374,000	45,175	56,157	0	61,000	44,000	0	31,000	36,000
30	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	34,000	345,000	44,450	18,640	0	55,000	25,600	0	50,000	21,000
Total				8.30	455.0	414.0	30,767,000	2,311,000	9,727,000	1,347,734	904,543	0	1,381,000	568,520	0	758,000	460,000
Daily Avg				0.31	17.5	15.9	1,183,000	77,000	324,000	45,000	35,000	0	53,000	41,000	0	29,000	33,000

June 1995 Revised by LER, 7/17/95.

### Notes:

1. NR = No Records.
2. Column I: total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and V: field measured.
4. Column V: estimated from depth in Phase IV riser.
5. Column VI: estimated from Column V and approximate volume with top of clay elevation at 119.5 feet.
6. Column VII: calculated from Column IX - Column X = Change in Storage of 500,000 gal. tank.
7. Column VIII: calculated from depth in 500,000 gal. leachate tank.
8. Columns X and XIII: quantities from flow meters.
9. Columns XI, XIV, and XV: quantities calculated from truck weight.
10. Column XVI: 80-85% of the daily values from Columns XI, X, and XIV.
11. Values in shaded cells substitute for missing data and are based on averaged values.

07-18-95 12:46PM

FROM SCS ENGINEERS TAMPA

TO 7446125

P003/004

# DRAFT

## LEACHATE WATER BALANCE REPORT FORM JULY 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I	II			III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI
Day	Area (acres)			Rainfall (in.)	Depth in Effluent Pond (in.)	Est. Depth Over Liner (in.)	Est. Landfill Storage (gal.)	Leachate Pumped to LTRF (gal.)	Leachate in 500K Tank (gal.)	Leachate Treated at LTRF (gal.)	Total Leachate Hauled (gal.)	Leachate Recirculation (gal.)	Effluent Pond Storage (gal.)	Effluent Sprayed (gal.)	Effluent Recirculation (gal.)	Total Effluent Hauled (gal.)	Landfill Evapor. (gal.)
1	23.2	5.0	92.2	0.0	14.0	16.0	1,189,000	74,000	374,000	44,985	0	0	42,000	0	0	31,000	0
2	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,415	0	0	NR	0	0	0	0
3	23.2	5.0	92.2	0.1	20.0	16.0	1,189,000	163,000	403,000	44,890	43,549	0	61,000	44,200	0	37,000	36,000
4	23.2	5.0	92.2	0.0	21.0	NR	NR	NR	NR	44,965	0	0	65,000	0	0	0	0
5	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	128,000	403,000	45,585	37,632	0	61,000	42,250	0	37,000	34,000
6	23.2	5.0	92.2	0.0	20.0	16.0	1,189,000	117,000	432,000	44,865	43,431	0	61,000	42,250	0	31,000	34,000
7	23.2	5.0	92.2	0.0	18.0	17.0	1,264,000	50,000	374,000	45,590	82,287	0	55,000	42,250	0	31,000	34,000
8	23.2	5.0	92.2	0.0	16.0	17.0	1,264,000	51,000	374,000	45,070	6,200	0	49,000	0	0	44,000	0
9	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	45,070	0	0	NR	0	0	0	0
10	23.2	5.0	92.2	0.0	32.0	58.0	9,649,000	169,000	403,000	45,180	50,274	0	102,000	42,250	0	37,000	34,000
11	23.2	5.0	92.2	0.0	27.0	58.0	9,649,000	79,000	374,000	45,180	62,308	0	85,000	42,250	0	31,000	34,000
12	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	50,000	317,000	45,132	62,132	0	75,000	36,900	0	31,000	30,000
13	23.2	5.0	92.2	2.2	21.0	58.0	9,649,000	41,000	288,000	45,045	25,041	0	65,000	0	0	68,000	0
14	23.2	5.0	92.2	0.3	20.0	58.0	9,649,000	70,000	288,000	45,315	24,900	0	61,000	0	0	31,000	0
15	23.2	5.0	92.2	0.0	24.0	58.0	9,649,000	35,000	259,000	45,350	18,756	0	75,000	0	0	37,000	0
16	23.2	5.0	92.2	0.0	23.0	58.0	9,649,000	74,000	288,000	45,000	0	0	71,000	27,400	0	0	22,000
17	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
18	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
19	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
20	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
21	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
22	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
23	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
24	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
25	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
26	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
27	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
28	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
29	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
30	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
31	NR	NR	NR	0.0	NR	NR	NR	NR	NR	NR	0	NR	NR	0	NR	0	C
Total				2.60	300.0	504.0	74,827,000	1,101,000	4,577,000	722,483	436,510	0	928,000	319,750	0	446,000	258,000
Daily Avg				0.16	21.4	38.8	5,756,000	69,000	352,000	45,000	40,000	0	66,000	40,000	0	37,000	32,000

July 1995 Revised by LER 7/18/95.

### Notes

1. NR = No Records
2. Column I: total area with waste is 120.4 acres (Phases I-V)
3. Columns III and V: field measured
4. Column V: estimated from depth in. Before 7/10/95 Phase IV riser and after 7/10/95 Phase IV Piezometer.
5. Column VI: estimated from Column V and approximate volume with top of clay elevation at: Before 7/10/95 116.5 feet and after 7/10/95 117.0 feet
6. Column VII: calculated from Column IX - Column X = Change in Storage of 500,000 gal. tank
7. Column VIII: calculated from depth in 500,000 gal. leachate tank
8. Columns X and XII: quantities from flow meters
9. Columns XI, XIII, XIV, and XV: quantities calculated from truck weight
10. Column XVI: 80.8% of the daily values from Columns XI, XIII and XIV.
11. Values in shaded cells substitute for missing data and are based on averaged values

07-18-95 12:46PM

FROM SCS ENGINEERS TAMPA

TO 7446125

P004/004

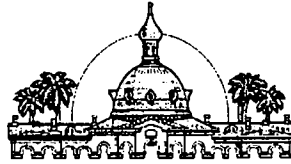
# HILLSBOROUGH COUNTY

Florida

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Daniel A. Kleman

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Senior Assistant County Administrator  
Patricia Bean

Assistant County Administrators  
Edwin Hunzeker  
Cretta Johnson  
Jimmie Keel  
Robert Taylor

✓  
July 14, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

D.E.P.

JUL 17 1995

SOUTHERN DISTRICT  
TAMPA

RE: Southeast County Landfill - Leachate Management System

Dear Mr. Ford:

In accordance with the Florida Department of Environmental Protection (DEP) Permit No. SO29-158504 for the County's Southeast County Landfill (Landfill), the Department of Solid Waste (DSW) is formally notifying the DEP of a temporary condition which exists at the Landfill which limits the DSW's ability to achieve the leachate levels required by the DEP for a portion of the Landfill.

Specifically, the recently installed piezometer in Phase IV of the Landfill has revealed that a low point exists in Phase IV. Although this is a temporary condition, it is preventing some leachate from being conveyed to the collection point of the Landfill. Attachment 1 provides the lithologic descriptions from the drilling of the piezometer. The first drilling location, Alt-1, was abandoned due to uncertainties in the top of clay elevation, and Alt-2 was developed as the piezometer location.

Attachment 2 is a letter from the DSW's landfill consultant, SCS Engineers (SCS), which provides additional information concerning the temporary low point. SCS has calculated that approximately 16.3 acres of the Landfill have a leachate level above the 24 inch depth, resulting in approximately 9.5 million gallons of leachate that must be removed by alternate means.

In accordance with Permit No. SO29-158504 General Condition No. 6, the DSW is obligated to operate and maintain all facility systems, including the requirement to operate backup or auxiliary systems when necessary to achieve compliance with the permit conditions. In accordance with that requirement, on July 13, 1995, the DSW installed a temporary suction pump in TPS3 with a suction line that will reach the leachate within the area of the low point in Phase IV. The DSW intends to monitor the leachate level in the piezometer to determine the pumping lowers the level in the piezometer. The DSW intends to install a permanent suction pump in TPS3 if a downward trend is observed.

Mr. Kim Ford

July 14, 1995

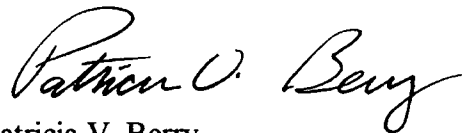
Page Two

Should the leachate level fail to respond to the permanent suction pump, the DSW is committed to installing a new temporary pump station in the low area of Phase IV in order to maximize the efficiency of the leachate collection system.

SCS has estimated that the DSW should begin to observe an influence in the piezometer from the temporary suction pump within several days. Based on this information, the DSW will proceed with the permanent suction pump installation. The DSW will inform the DEP of its intended action prior to installing any permanent modifications to the leachate collection system.

Should you have any questions concerning the information provided or if you would like to meet and discuss the matter further, please call me at 276-2908. The DSW would also welcome you to visit the Landfill and observe the temporary suction pump installation if you desire.

Sincerely,

A handwritten signature in cursive script, reading "Patricia V. Berry".

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

Attachments

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

## ATTACHMENT 1



**HILLSBOROUGH COUNTY DEPARTMENT OF SOLID WASTE  
MANAGEMENT AND ENVIRONMENTAL SERVICES**

**LITHOLOGY DESCRIPTION  
PIEZOMETER LOCATION ALT-1**

Well No:	<u>Piezometer ALT-1</u>	Date Drilled:	<u>July 5, 1995</u>
Project:	<u>Southeast Landfill</u>	Driller:	<u>David Teslicko - Law</u>
Location:	<u>Phase IV SELF</u>	Recorded by:	<u>David Adams</u>
Sample Type:	<u>None</u>	Total Depth:	<u>23.25'</u>
Casing: Depth:	<u>Not Applicable</u>	Diameter:	<u>-</u>
Screen: Interval:	<u>Not Applicable</u>	Diameter:	<u>-</u>
Material:	<u>Not Applicable</u>	Notes:	<u>-</u>

**DEPTH BELOW**

**LSD (FEET)**

**LITHOLOGY DESCRIPTION**

0 - 1'	Grass & Roots, fine sand, light grey, slightly silty
1 - 3'	Fine sand, light to dark grey, slightly silty, dark grey to black ash near bottom
3 - 19'	Dark grey to black ash mixed with waste such as wood, metal, plastic, and tire chips
19-19.5'	Dark grey to black ash material mixed with waste material and traces of sand
19.5 - 20'	Grading dark to light grey sand, slightly silty, with no waste materials

**BEGIN SPLIT SPOON SAMPLING**

20 - 20.5'	Grey sand, poorly sorted, good spoon sample
20.5 - 21'	Grey sand, poorly sorted, good spoon sample
21 - 21.5'	Grey sand, poorly sorted, good spoon sample
21.5 - 22.5'	Grey sand, Spoon dropped 1 ft. with three hammer blows, very little sample in spoon
22.5 - 23.25'	Grey sand, very little sample in spoon, clay was evident on outside of the spoon.

The hole was cleaned out to a total depth of 23.25 feet, and the augers were tripped out for inspection. Clay was evident on the bottom 6 to 8 inches of the auger flight. A discussion among the on site engineer Larry Ruiz of SCS Engineers, the County's hydrologist David Adams, and the driller David Teslicko of Law Engineering, concluded that the top of clay layer was not clearly defined, and it had been penetrated, therefore the decision was made to move on to the alternate location ALT-2

HILLSBOROUGH COUNTY DEPARTMENT OF SOLID WASTE  
MANAGEMENT AND ENVIRONMENTAL SERVICES

LITHOLOGY DESCRIPTION  
PIEZOMETER LOCATION ALT-2

Well No:	Piezometer ALT-2	Date Drilled:	July 5, 1995
Project:	Southeast Landfill	Driller:	David Teslicko - Law
Location:	Phase IV SELF	Recorded by:	David Adams
Sample Type:	None	Total Depth:	22.5'
Casing: Depth:	22.5'	Diameter:	4-inch
Screen: Interval:	20.5 - 22.5'	Diameter:	4-inch
Material:	PVC Sch-80	Notes:	-

DEPTH BELOW  
LSD (FEET)

LITHOLOGY DESCRIPTION

0 - 1'	Grass & Roots, fine sand, light grey, slightly silty
1 - 3'	Fine sand, light to dark grey, slightly silty, dark grey to black ash near bottom
3 - 19'	Dark grey to black ash mixed with waste such as wood, metal, plastic, and tire chips
19-19.5'	Dark grey to black ash material mixed with waste material and traces of sand

BEGIN SPLIT SPOON SAMPLING

19.5 - 20'	Grey sand, poorly sorted. good spoon sample
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20.5 - 21'	Grey sand, poorly sorted, good spoon sample
21 - 21.5'	Grey sand, poorly sorted, good spoon sample
21.5 - 22'	Grey sand, poorly sorted, good spoon sample
22 - 22.5'	Grey sand to light grey sand (approx. 1.5 inches in bottom of spoon shoe)

The top of clay was clearly defined at 22.5 feet below land surface (bls). The borehole was then cleaned out to approximately 22.5 feet bls, and the piezometer was set at this depth. The auger flights were then tripped out and inspected, and a trace of clay was evident on the very bottom. This observation further supported the top of clay being defined at 22.5 feet bls.

## ATTACHMENT 2

Environmental Consultants

3012 U.S. Highway 301 North  
Suite 200  
Tampa, FL 33607-2142811  
1-800**SCS ENGINEERS**

July 14, 1995  
File No. 0990018.35

Patricia V. Berry  
Hillsborough County  
Department of Solid Waste  
P. O. Box 1110  
Tampa, Florida 33601



Subject: Southeast County Landfill Piezometer Data Review

Dear Patty:

On July 5, 1995, a piezometer was installed in Phase IV to monitor the leachate depth over the liner in the Southeast County Landfill (SELF). The piezometer was constructed as shown on Figure 1. On July 6, 1995, the piezometer was surveyed by the county's land surveyor and on July 7, 1995, the piezometer was developed by personnel from the Hillsborough County Department of Solid Waste (HCDSW). The piezometer was monitored on July 7 and July 10, 1995, indicating leachate depths of 53 inches and 58 inches, respectively.

Figure 2 shows the approximate top of clay contours presented in the pending permit application. Figure 2 was compiled from settlement calculations and field exploration data obtained in December 1993 and February 1994. The available data suggested that the low point in the landfill was in the area of Pump Station No. 3 (TPS3). Data from the recent installation of the piezometer indicates that the low point of the landfill apparently is just to the south of TPS3 as shown in Figure 3. We believe this is a temporary condition and that the final low point will still occur in Phase VI as originally projected by Ardaman and Associates, Inc.

The current condition is preventing some leachate from being conveyed to TPS3. In order to bring the leachate depth within the low point to the depth required by the Florida Department of Environmental Protection (FDEP), SCS recommends that the HCDSW proceed with a phased action plan as follows:

- Install a temporary suction pump in TPS3 with a suction line that will reach the leachate within the low area. The leachate collection pipe discharging into TPS3 from Phase IV intersects the existing low area. After the suction pump is activated, the leachate depth in the piezometer should be monitored daily. If a downward trend in the leachate depth is observed, then a permanent suction pump should be installed in TPS3. SCS understands that this action was already implemented by the HCDSW on July 13, 1995.



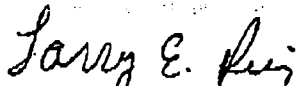
Patricia V. Berry  
July 14, 1995  
Page 2

- If the suction pump does not reduce the leachate depth, then a new temporary pump station should be installed within the low area in Phase IV.

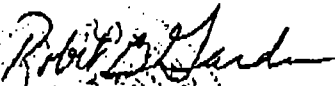
Based on the new estimated top of clay contours of the low area as shown in Figure 3 and the recent piezometer readings, SCS estimates that approximately 9.5 million gallons of leachate must be removed to lower the leachate depth in the piezometer to 24 inches (Figure 4). As stated in correspondence dated December 16, 1995, from the HCDSW to the FDEP and previous hauling quantities, the SELF leachate collection system can provide for the removal of 150,000 gallons per day (gpd) until recharging through the drainage layer becomes the controlling factor. We estimate that at a removal rate of 150,000 gallons per day, approximately 3 to 4 months of pumping will be required to meet the 24-inch leachate depth objectives (Figure 5).

Please do not hesitate to call if you have any questions.

Very truly yours,



Larry E. Ruiz  
Senior Project Engineer



Robert B. Gardner, P.E.

Vice President  
SCS ENGINEERS

LER/RBG:ikm

Attachments

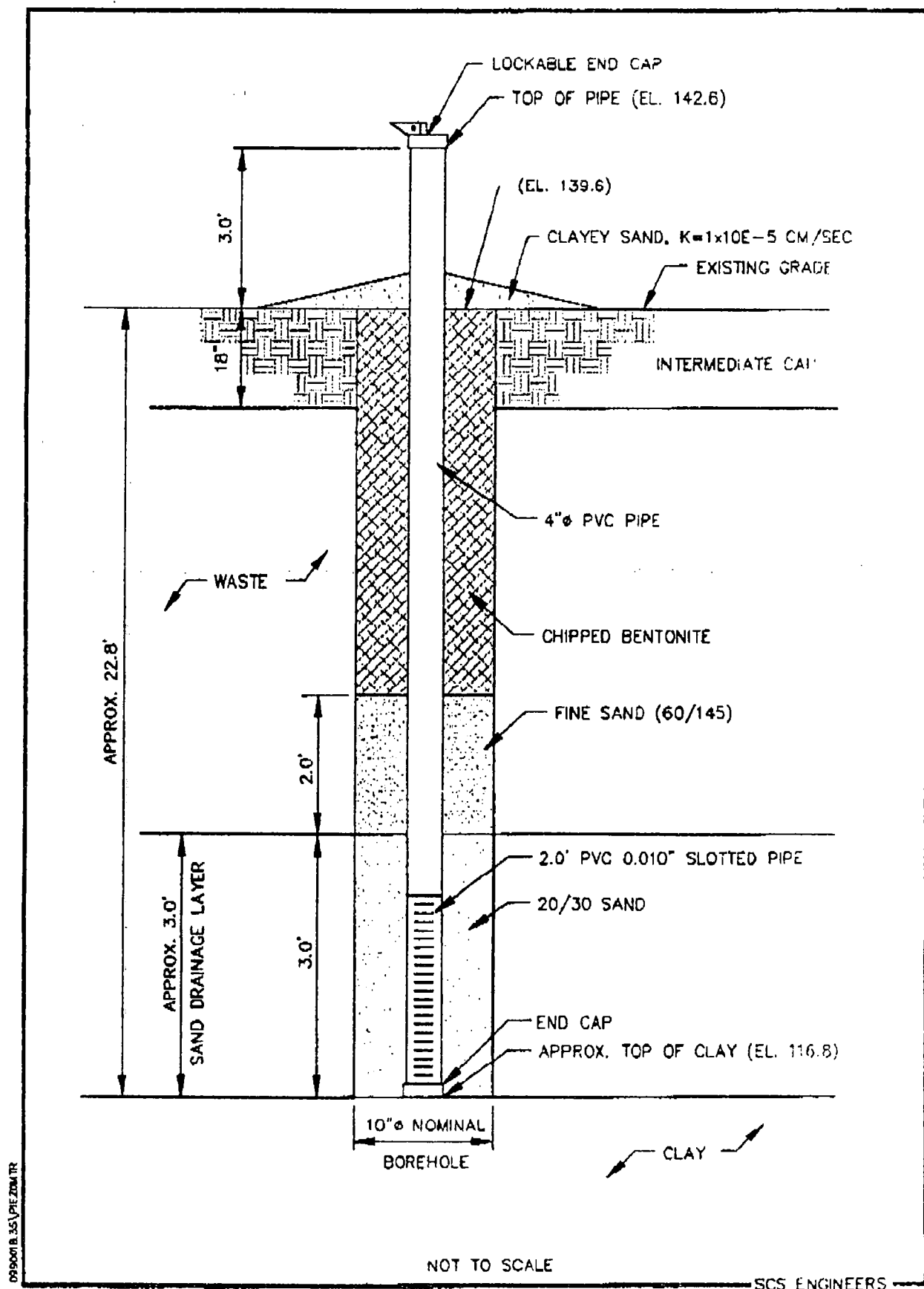


Figure 1. Existing Piezometer Detail.

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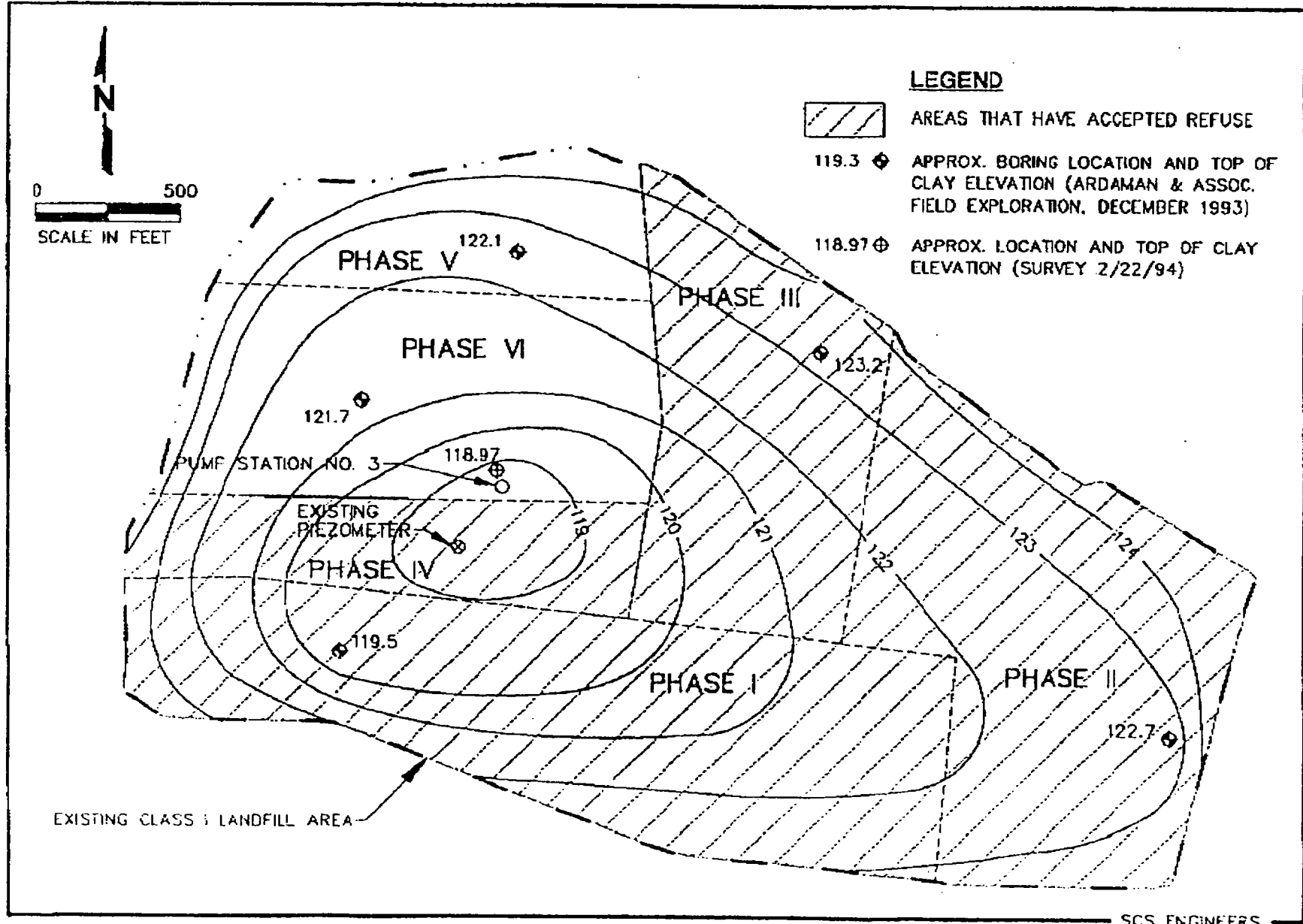
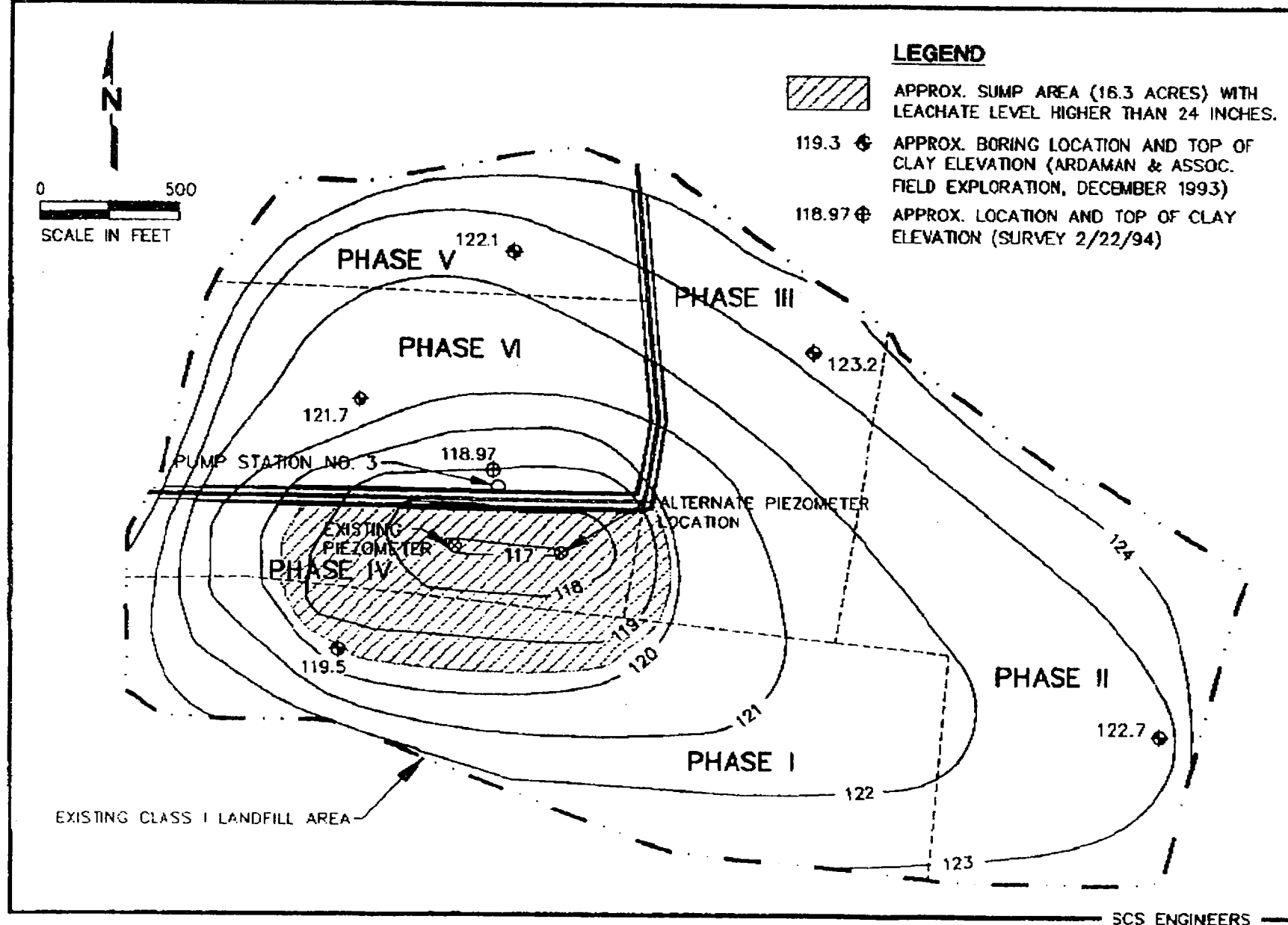


Figure 2. Approximate Top of Clay Elevation.

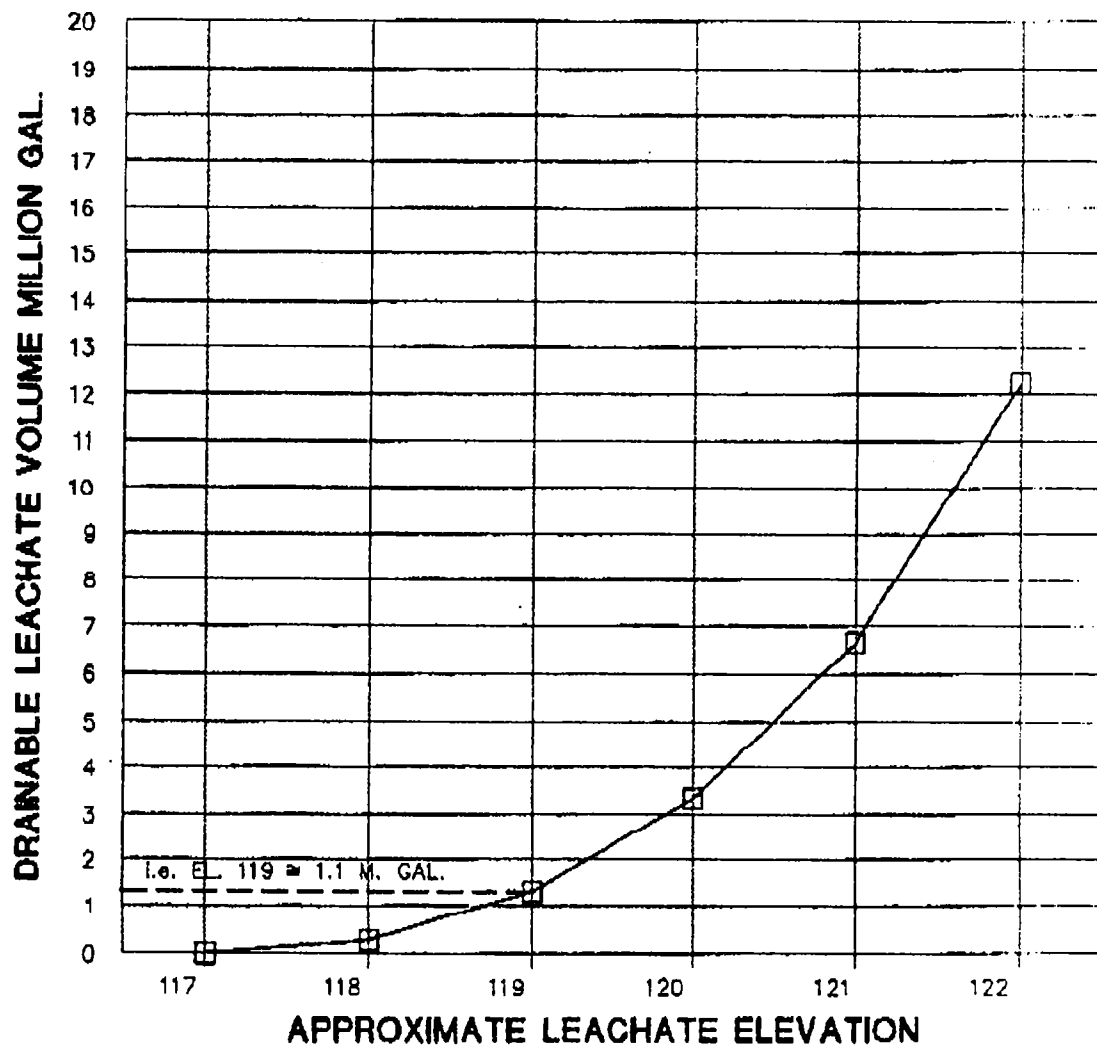
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SCS ENGINEERS

Figure 3. Existing Limit of Sump Area.

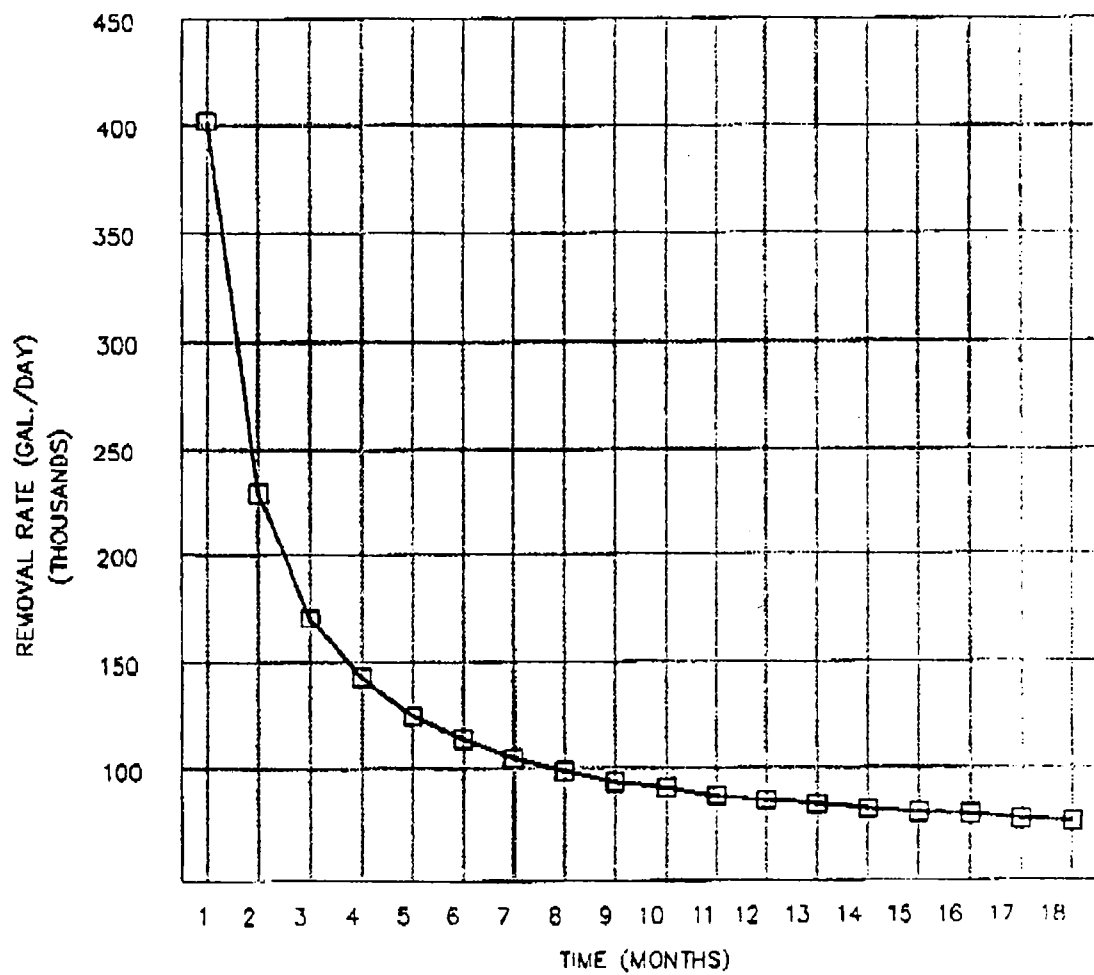




DP00018.35\LEV001

SCS ENGINEERS

Figure 4. Leachate Volume Vs. Elevation, Southeast Landfill, Hillsborough County.



000000.000000

SCS ENGINEERS

Figure 5. Lecchate Removal Rate vs. Required Time.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 7/14/95 Subject SE LF  
Time 3pm Permit No. \_\_\_\_\_  
County Hills Co  
M R Larry Ruiz Telephone No. 621 0080  
Representing SCS

[ ] Phoned Me [ ☒ ] Was Called [ ] Scheduled Meeting [ ] Unscheduled Meeting  
Other Individuals Involved in Conversation/Meeting \_\_\_\_\_

Summary of Conversation/Meeting \_\_\_\_\_

I DISCUSSED SURVEY ELEVATIONS & SPREADSHEETS

REQUESTS:

1. THE PIPE INTERS UNDER EACH CLEANOUT ALONG  
PHASE III & IV BE READ MONTHLY UNTIL  
SETTLEMENT PLATES ARE INSTALLED.

2. A SPREAD SHEET BE PROVIDED FOR ALL  
TOP OF CLAY READINGS

3. LEAKAGE SPREADSHEET FOR JUNE - JULY 14 BE  
PROVIDED BY THURSDAY AROUND 7/18/95

LARRY SAID OK - I WILL BE INSPECTING NEW  
SECTION pump today

(continue on another  
sheet, if necessary)

Signature [Signature]

Title \_\_\_\_\_

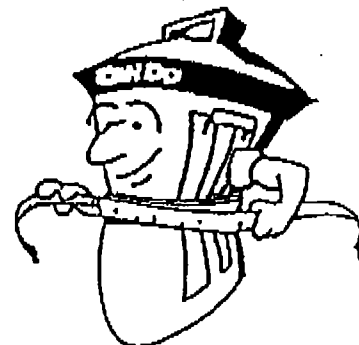


# Hillsborough County

Department of Solid Waste \* P.O. Box 1110  
Tampa, FL 33601

Sender's Telephone Number: 276-2908

24-Hour FAX Line — (813) 276-2960



"Together We CAN-DO It"

DATE: 7-14-95

TO: Kim Ford

FAX: 744-6125 SUBJECT: \_\_\_\_\_

FROM: Patty Berry

COMMENTS (If Any): for your information

Total Pages Sent (including cover sheet) 14

Serving our customers with:

Residential & Commercial Collection Services • Curbside Recycling • Resource Recovery  
Household Chemical Collection • Adopt-A-Road & Adopt-A-Shore  
Environmental Enforcement • Yard & Wood Waste Processing • Landfill Services  
Community Collection Centers • Environmental Testing

# HILLSBOROUGH COUNTY

Florida

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Daniel A. Kleman

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Robert Taylor

July 14, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**RE: Southeast County Landfill - Leachate Management System**

Dear Mr. Ford:

In accordance with the Florida Department of Environmental Protection (DEP) Permit No. SO29-158504 for the County's Southeast County Landfill (Landfill), the Department of Solid Waste (DSW) is formally notifying the DEP of a temporary condition which exists at the Landfill which limits the DSW's ability to achieve the leachate levels required by the DEP for a portion of the Landfill.

Specifically, the recently installed piezometer in Phase IV of the Landfill has revealed that a low point exists in Phase IV. Although this is a temporary condition, it is preventing some leachate from being conveyed to the collection point of the Landfill. Attachment 1 provides the lithologic descriptions from the drilling of the piezometer. The first drilling location, Alt-1, was abandoned due to uncertainties in the top of clay elevation, and Alt-2 was developed as the piezometer location.

Attachment 2 is a letter from the DSW's landfill consultant, SCS Engineers (SCS), which provides additional information concerning the temporary low point. SCS has calculated that approximately 16.3 acres of the Landfill have a leachate level above the 24 inch depth, resulting in approximately 9.5 million gallons of leachate that must be removed by alternate means.

In accordance with Permit No. SO29-158504 General Condition No. 6, the DSW is obligated to operate and maintain all facility systems, including the requirement to operate backup or auxiliary systems when necessary to achieve compliance with the permit conditions. In accordance with that requirement, on July 13, 1995, the DSW installed a temporary suction pump in TPS3 with a suction line that will reach the leachate within the area of the low point in Phase IV. The DSW intends to monitor the leachate level in the piezometer to determine the pumping lowers the level in the piezometer. The DSW intends to install a permanent suction pump in TPS3 if a downward trend is observed.

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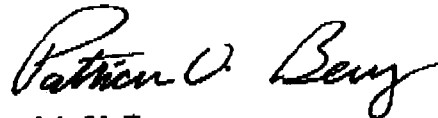
Mr. Kim Ford  
July 14, 1995  
Page Two

Should the leachate level fail to respond to the permanent suction pump, the DSW is committed to installing a new temporary pump station in the low area of Phase IV in order to maximize the efficiency of the leachate collection system.

SCS has estimated that the DSW should begin to observe an influence in the piezometer from the temporary suction pump within several days. Based on this information, the DSW will proceed with the permanent suction pump installation. The DSW will inform the DEP of its intended action prior to installing any permanent modifications to the leachate collection system.

Should you have any questions concerning the information provided or if you would like to meet and discuss the matter further, please call me at 276-2908. The DSW would also welcome you to visit the Landfill and observe the temporary suction pump installation if you desire.

Sincerely,



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

**Attachments**

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

**ATTACHMENT 1**

**HILLSBOROUGH COUNTY DEPARTMENT OF SOLID WASTE  
MANAGEMENT AND ENVIRONMENTAL SERVICES**

**LITHOLOGY DESCRIPTION  
PIEZOMETER LOCATION ALT-1**

<b>Well No:</b>	<u>Piezometer ALT-1</u>	<b>Date Drilled:</b>	<u>July 5, 1995</u>
<b>Project:</b>	<u>Southeast Landfill</u>	<b>Driller:</b>	<u>David Teslicko - Law</u>
<b>Location:</b>	<u>Phase IV S&amp;LF</u>	<b>Recorded by:</b>	<u>David Adams</u>
<b>Sample Type:</b>	<u>None</u>	<b>Total Depth:</b>	<u>23.25'</u>
<b>Casing:</b>	<u>Depth: Not Applicable</u>	<b>Diameter:</b>	<u>-</u>
<b>Screen:</b>	<u>Interval: Not Applicable</u>	<b>Diameter:</b>	<u>-</u>
	<u>Material: Not Applicable</u>	<b>Notes:</b>	<u>-</u>

<u>DEPTH BELOW LSD (FEET)</u>	<u>LITHOLOGY DESCRIPTION</u>
-----------------------------------	------------------------------

0 - 1'	Grass & Roots, fine sand, light grey, slightly silty
1 - 3'	Fine sand, light to dark grey, slightly silty, dark grey to black ash near bottom
3 - 19'	Dark grey to black ash mixed with waste such as wood, metal, plastic, and tire chips
19-19.5'	Dark grey to black ash material mixed with waste material and traces of sand
19.5 - 20'	Grading dark to light grey sand, slightly silty, with no waste materials

**BEGIN SPLIT SPOON SAMPLING**

20 - 20.5'	Grey sand, poorly sorted, good spoon sample
20.5 - 21'	Grey sand, poorly sorted, good spoon sample
21 - 21.5'	Grey sand, poorly sorted, good spoon sample
21.5 - 22.5'	Grey sand, Spoon dropped 1 ft. with three hammer blows, very little sample in spoon
22.5 - 23.25'	Grey sand, very little sample in spoon, clay was evident on outside of the spoon.

The hole was cleaned out to a total depth of 23.25 feet, and the augers were tripped out for inspection. Clay was evident on the bottom 6 to 8 inches of the auger flight. A discussion among the on site engineer Larry Ruiz of SCS Engineers, the County's hydrologist David Adams, and the driller David Teslicko of Law Engineering, concluded that the top of clay layer was not clearly defined, and it had been penetrated, therefore the decision was made to move on to the alternate location ALT-2



**HILLSBORO /H COUNTY DEPARTMENT OF SOLID WASTE  
MANAGEMENT AND ENVIRONMENTAL SERVICES****LITHOLOGY DESCRIPTION  
PIEZOMETER LOCATION ALT-2**

Well No: Piezometer ALT-2  
Project: Southeast Landfill  
Location: Phase IV SELF  
Sample Type: None  
Casing: Depth: 22.5'  
Screen: Interval: 20.5 - 22.5'  
Material: PVC Sch-80

Date Drilled: July 5, 1995  
Driller: David Teslicko - Law  
Recorded by: David Adams  
Total Depth: 22.5'  
Diameter: 4-inch  
Diameter: 4-inch  
Notes: -

<u>DEPTH BELOW LSD (FEET)</u>	<u>LITHOLOGY DESCRIPTION</u>
-----------------------------------	------------------------------

0 - 1'	Grass & Roots, fine sand, light grey, slightly silty
1 - 3'	Fine sand, light to dark grey, slightly silty, dark grey to black ash near bottom
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19-19.5'	Dark grey to black ash material mixed with waste material and traces of sand

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20.5 - 21'	Grey sand, poorly sorted, good spoon sample
21 - 21.5'	Grey sand, poorly sorted, good spoon sample
21.5 - 22'	Grey sand, poorly sorted, good spoon sample
22 - 22.5'	Grey sand to light grey sand (approx. 1.5 inches in bottom of spoon shoe)

The top of clay was clearly defined at 22.5 feet below land surface (bls). The borehole was then cleaned out to approximately 22.5 feet bls, and the piezometer was set at this depth. The auger flights were then tripped out and inspected, and a trace of clay was evident on the very bottom. This observation further supported the top of clay being defined at 22.5 feet bls.

**ATTACHMENT 2**

Environmental Consultants

3012 E. Highway 80 North

813

Suite 200

1-800

Tampa, FL 33602-2542

**SCS ENGINEERS**

July 14, 1995  
File No. 0980018.35



Patricia V. Berry  
Hillsborough County  
Department of Solid Waste  
P. O. Box 1110  
Tampa, Florida 33601

**Subject: Southeast County Landfill Piezometer Data Review**

**Dear Patty:**

On July 5, 1995, a piezometer was installed in Phase IV to monitor the leachate depth over the liner in the Southeast County Landfill (SELF). The piezometer was constructed as shown on Figure 1. On July 6, 1995, the piezometer was surveyed by the county's land surveyor and on July 7, 1995, the piezometer was developed by personnel from the Hillsborough County Department of Solid Waste (HCDSW). The piezometer was monitored on July 7 and July 10, 1995, indicating leachate depths of 53 inches and 58 inches, respectively.

Figure 2 shows the approximate top of clay contours presented in the pending permit application. Figure 2 was compiled from settlement calculations and field exploration data obtained in December 1993 and February 1994. The available data suggested that the low point in the landfill was in the area of Pump Station No. 3 (TPS3). Data from the recent installation of the piezometer indicates that the low point of the landfill apparently is just to the south of TPS3 as shown in Figure 3. We believe this is a temporary condition and that the final low point will still occur in Phase VI as originally projected by Ardaman and Associates, Inc.

The current condition is preventing some leachate from being conveyed to TPS3. In order to bring the leachate depth within the low point to the depth required by the Florida Department of Environmental Protection (FDEP), SCS recommends that the HCDSW proceed with a phased action plan as follows:

- Install a temporary suction pump in TPS3 with a suction line that will reach the leachate within the low area. The leachate collection pipe discharging into TPS3 from Phase IV intersects the existing low area. After the suction pump is activated, the leachate depth in the piezometer should be monitored daily. If a downward trend in the leachate depth is observed, then a permanent suction pump should be installed in TPS3. SCS understands that this action was already implemented by the HCDSW on July 13, 1995.

Patricia V. Berry  
July 14, 1995  
Page 2

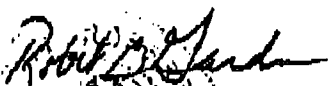
- If the suction pump does not reduce the leachate depth, then a new temporary pump station should be installed within the low area in Phase IV.

Based on the new estimated top of clay contours of the low area as shown in Figure 3 and the recent piezometer readings, SCS estimates that approximately 9.5 million gallons of leachate must be removed to lower the leachate depth in the piezometer to 24 inches (Figure 4). As stated in correspondence dated December 16, 1995, from the HCDSW to the FDEP and previous hauling quantities, the SELF leachate collection system can provide for the removal of 150,000 gallons per day (gpd) until recharging through the drainage layer becomes the controlling factor. We estimate that at a removal rate of 150,000 gallons per day, approximately 3 to 4 months of pumping will be required to meet the 24-inch leachate depth objectives (Figure 5).

Please do not hesitate to call if you have any questions.

Very truly yours,

  
Larry E. Ruiz  
Senior Project Engineer

  
Robert B. Gardner, P.E.  
Vice President  
SCS ENGINEERS  
LER/RBG:km

Attachments

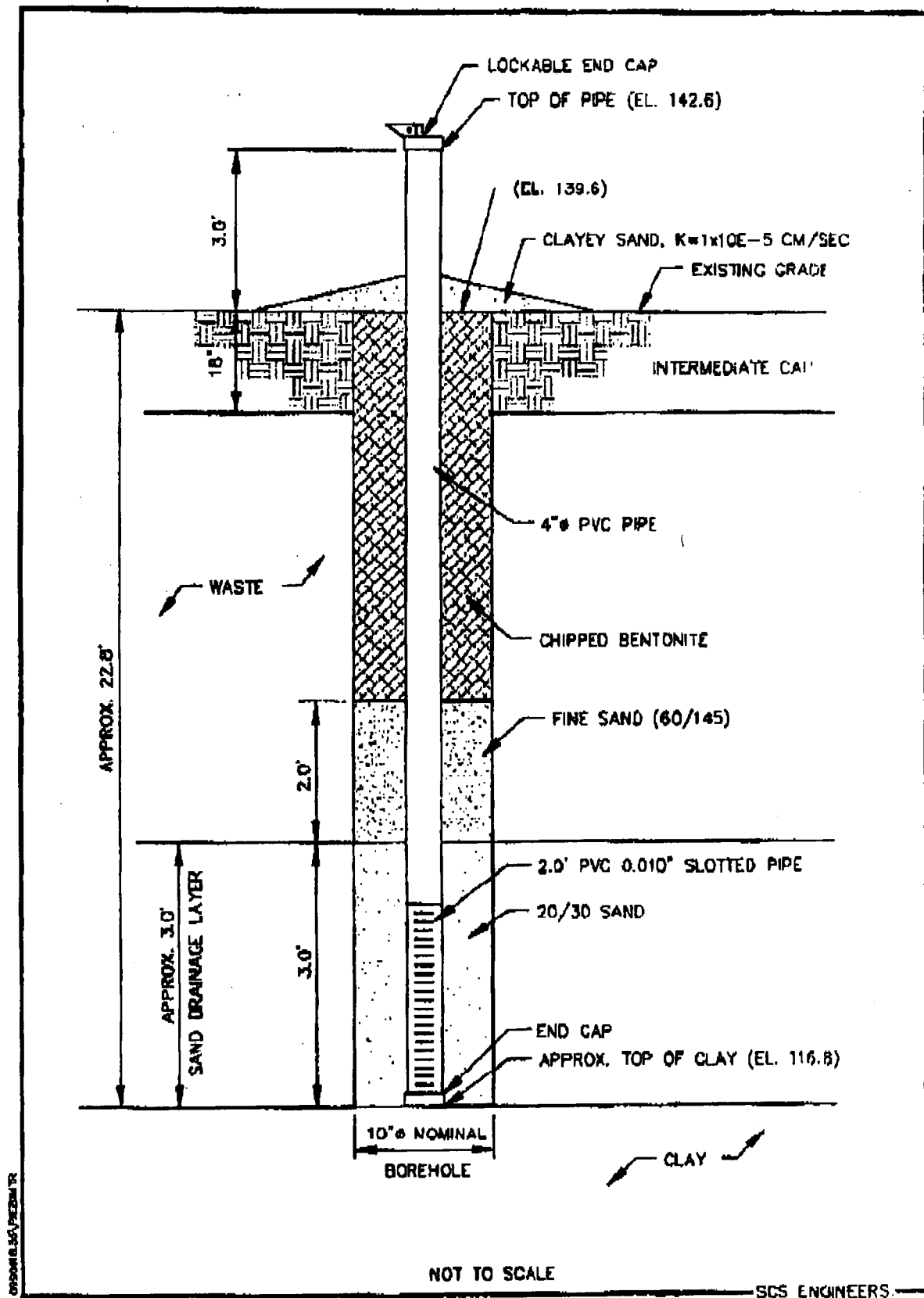


Figure 1. Existing Piezometer Detail.

0896045.35\1.51701A2 (500)

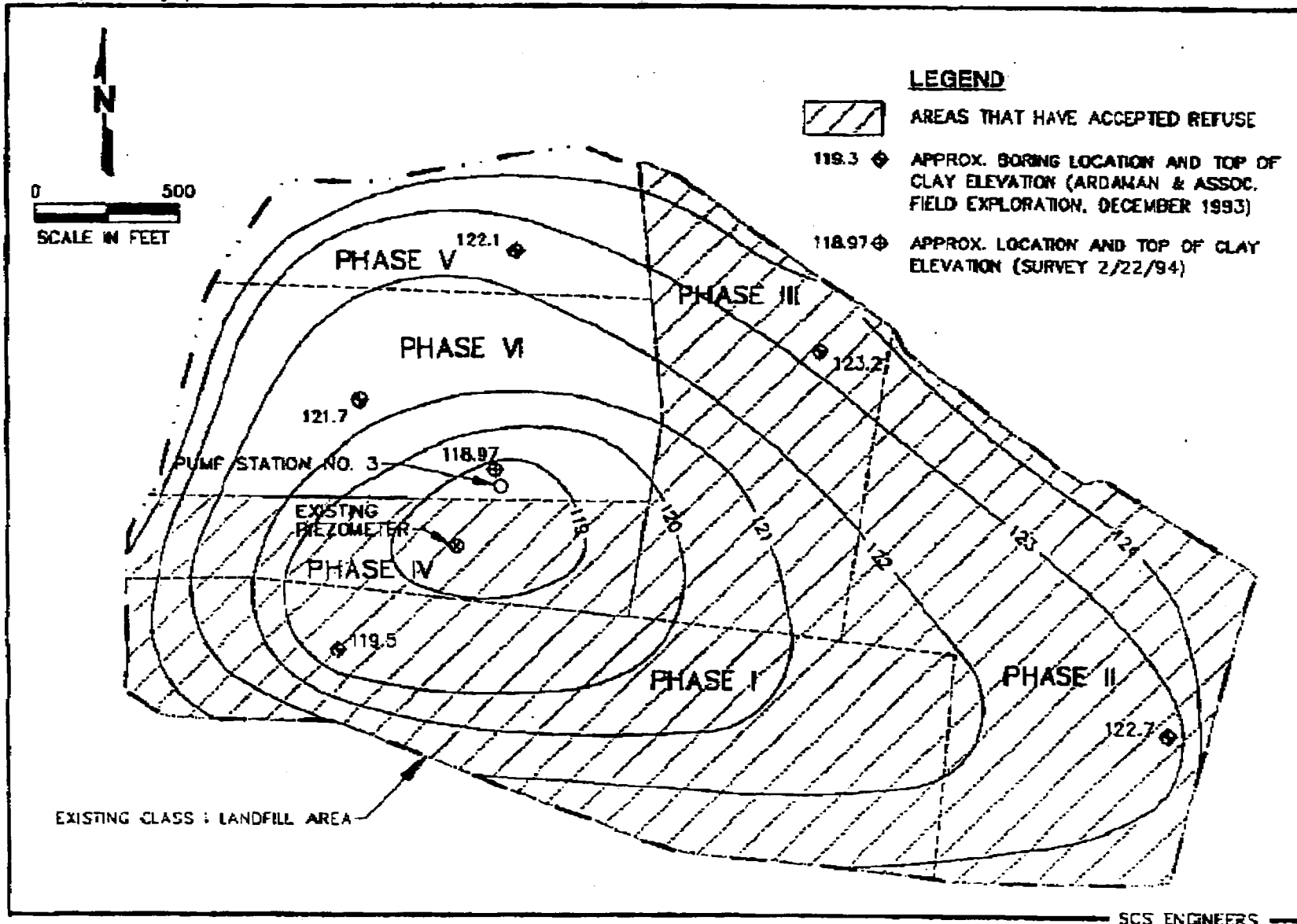


Figure 2. Approximate Top of Clay Elevation.

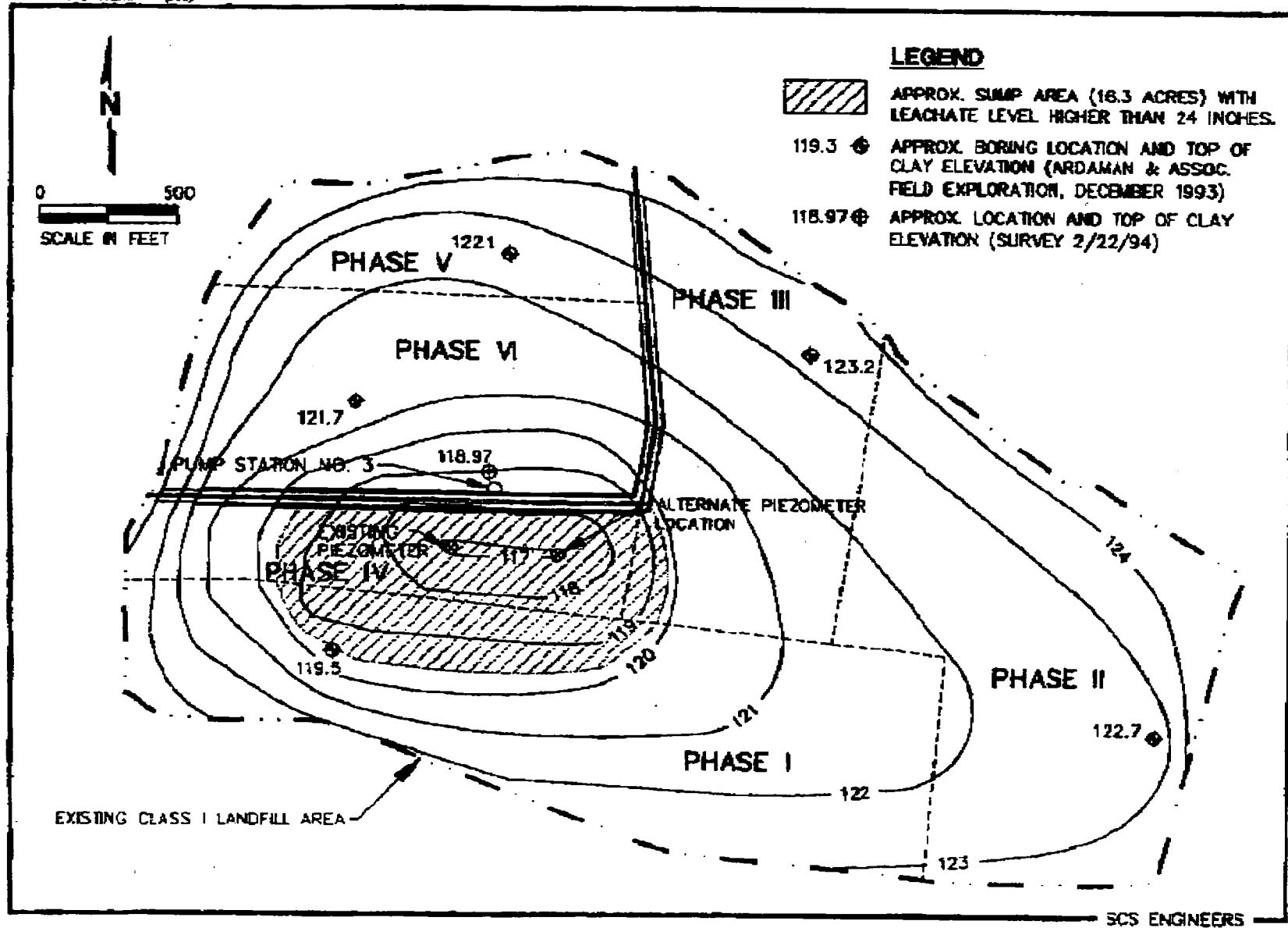


Figure 3. Existing Limit of Sump Area.

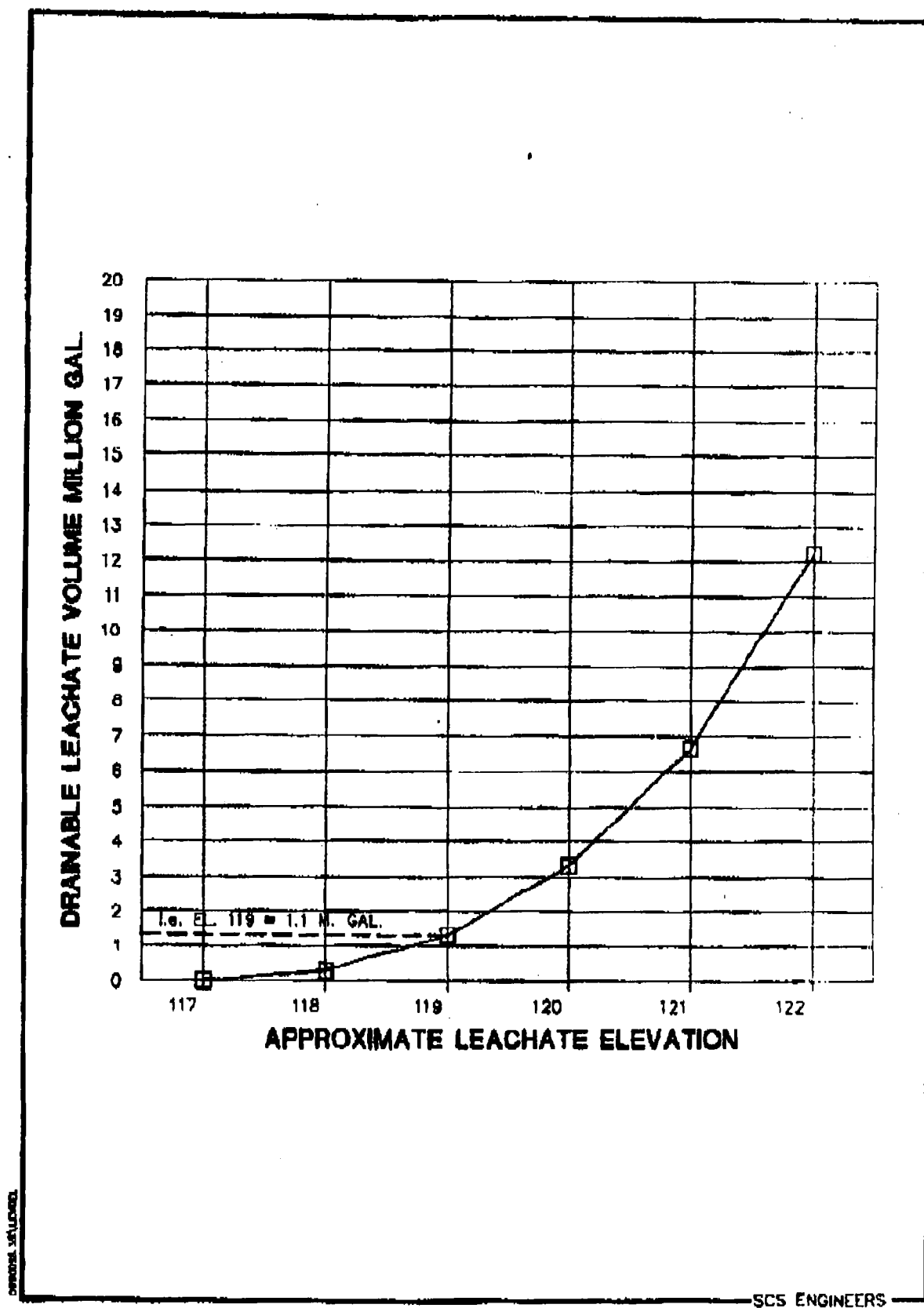


Figure 4. Leachate Volume Vs. Elevation, Southeast Landfill, Hillsborough County.



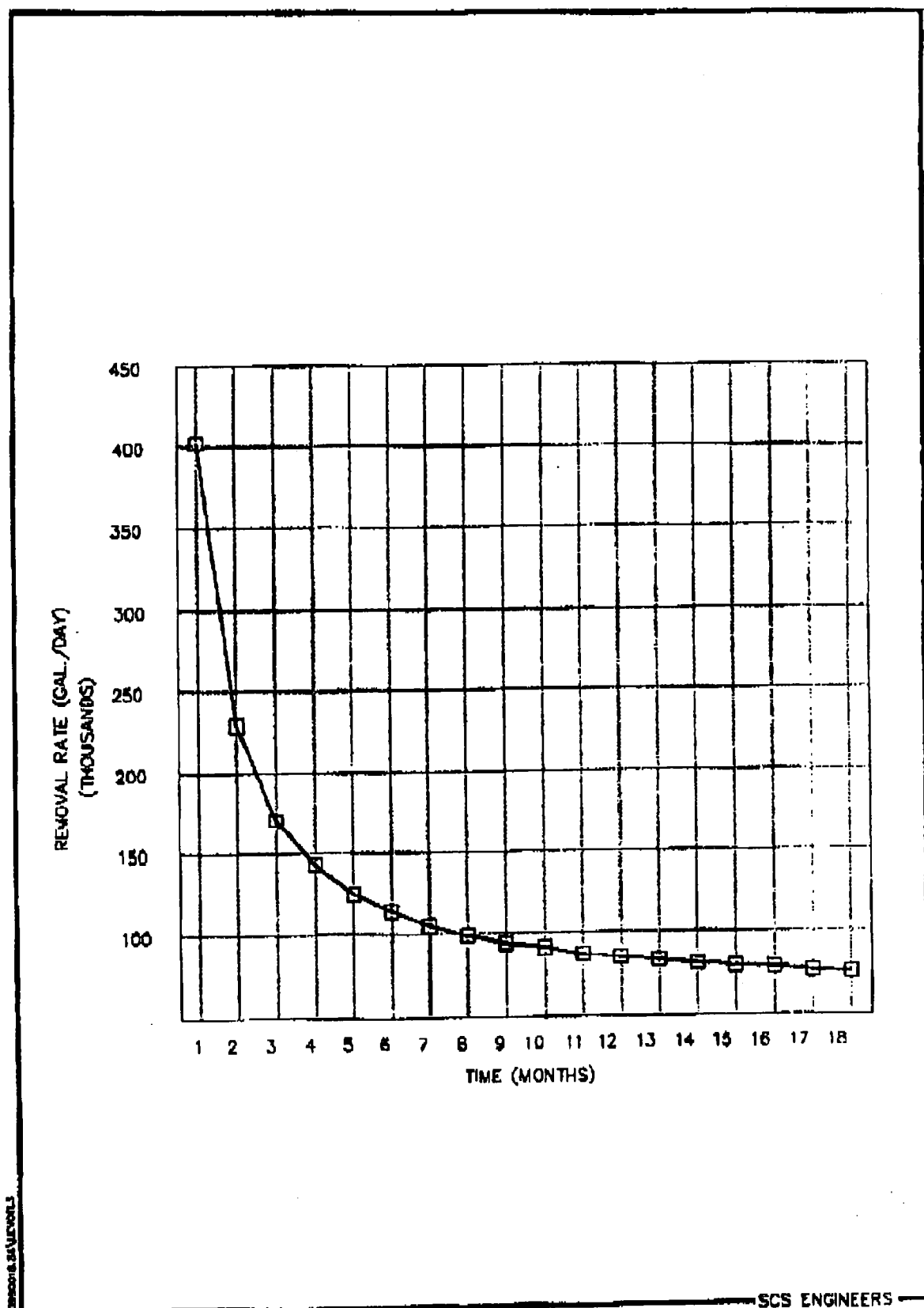


Figure 5. Leachate Removal Rate vs. Required Time.

## FAX COVER

TO:

DATE:  
NAME:  
COMPANY NAME:  
FAX NUMBER:  
PHONE NUMBER:

6/29/95  
Km Ford  
FDER  
744-6125  
744-6100

### SCS ENGINEERS

Environmental Consultants

3012 U.S. Highway 301 North  
Suite 700  
Tampa, Florida 33619

Phone 813 621-0080  
FAX 813 623-6757

FROM:

JOB/OVERHEAD NUMBER:

NUMBER OF PAGES:

Larry Kvitz  
099001B.55  
3

COMMENTS:

Please review, call if you have  
any questions. Thanks

Larry

LEACHATE WATER BALANCE REPORT FORM  
MAY 1995

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL

I Day	II Area (acres)			III Rainfall (in.)	IV Depth in Effluent Pond (in.)	V Est. Depth Over Liner (in.)	VI Est. Landfill Storage (gal.)	VII Leachate Pumped to LTRF (gal.)	VIII Leachate in 500K Tank (gal.)	IX Leachate Treated at LTRF (gal.)	X Total Leachate Hauled (gal.)	XI Leachate Recirculation (gal.)	XII Effluent Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recirculation (gal.)	XV Total Effluent Hauled (gal.)	XVI Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	22.0	15.0	1,115,000	193,000	317,000	62,000	69,000	0	68,000	49,000	0	26,000	40,000
2	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	45,000	258,000	40,000	62,000	0	55,000	49,000	0	12,000	40,000
3	23.2	5.0	92.2	0.0	23.0	15.0	1,115,000	82,000	258,000	44,000	37,000	0	71,000	49,000	0	25,000	40,000
4	23.2	5.0	92.2	0.0	24.0	15.0	1,115,000	69,000	230,000	36,000	82,000	0	75,000	49,000	0	19,000	40,000
5	23.2	5.0	92.2	0.8	29.0	18.0	1,189,000	74,000	202,000	46,000	56,000	0	92,000	49,000	0	25,000	40,000
6	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	53,000	173,000	44,000	37,000	0	55,000	0	0	18,000	0
7	23.2	5.0	92.2	0.0	NR	15.0	1,115,000	40,000	173,000	40,000	0	0	NR	0	0	0	0
8	23.2	5.0	92.2	0.0	35.0	15.0	1,115,000	115,000	173,000	47,000	68,000	0	113,000	49,000	0	25,000	40,000
9	23.2	5.0	92.2	0.0	32.0	15.0	1,115,000	88,000	173,000	45,000	43,000	0	102,000	40,000	0	19,000	32,000
10	23.2	5.0	92.2	0.0	29.0	20.0	1,609,000	41,000	144,000	45,000	25,000	0	92,000	40,000	0	25,000	32,000
11	23.2	5.0	92.2	0.0	29.0	17.0	1,264,000	NR	115,000	NR	12,000	0	92,000	40,000	0	31,000	32,000
12	23.2	5.0	92.2	0.0	20.0	17.0	1,264,000	93,000	144,000	45,000	18,000	0	61,000	40,000	0	31,000	32,000
13	23.2	5.0	92.2	0.0	NR	16.0	1,189,000	78,000	173,000	49,000	0	0	NR	0	0	0	0
14	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	43,000	44,000	0	102,000	49,000	0	25,000	40,000
15	23.2	5.0	92.2	0.0	32.0	16.0	1,189,000	190,000	230,000	46,000	50,000	0	88,000	49,000	0	19,000	40,000
16	23.2	5.0	92.2	0.0	28.0	16.0	1,189,000	85,000	202,000	44,000	43,000	0	81,000	49,000	0	25,000	40,000
17	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	80,000	173,000	45,000	19,000	0	69,000	38,000	0	31,000	31,000
18	23.2	5.0	92.2	0.0	22.0	16.0	1,189,000	64,000	173,000	45,000	13,000	0	45,000	38,000	0	37,000	31,000
19	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	NR	202,000	NR	0	0	49,000	0	0	0	0
20	23.2	5.0	92.2	0.9	16.0	15.0	1,115,000	46,000	202,000	46,000	0	0	81,000	0	0	0	0
21	23.2	5.0	92.2	0.2	20.0	NR	NR	NR	NR	45,000	0	0	81,000	0	0	0	0
22	23.2	5.0	92.2	0.0	38.0	15.0	1,115,000	NR	258,000	NR	43,000	0	124,000	38,000	0	25,000	31,000
23	23.2	5.0	92.2	0.0	33.0	16.0	1,189,000	36,000	230,000	46,000	19,000	0	106,000	49,000	0	19,000	40,000
24	23.2	5.0	92.2	0.0	29.0	16.0	1,189,000	NR	230,000	NR	31,000	0	92,000	49,000	0	25,000	40,000
25	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	76,000	230,000	45,000	31,000	0	81,000	49,000	0	38,000	40,000
26	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	58,000	230,000	45,000	12,000	0	55,000	49,000	0	63,000	40,000
27	23.2	5.0	92.2	0.0	10.0	18.0	1,189,000	NR	259,000	NR	0	0	30,000	0	0	0	0
28	23.2	5.0	92.2	0.7	NR	NR	NR	NR	NR	45,000	0	0	NR	0	0	0	0
29	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	125,000	288,000	45,000	6,000	0	81,000	0	0	37,000	0
30	23.2	5.0	92.2	0.0	24.0	16.0	1,189,000	NR	288,000	NR	37,000	0	75,000	49,000	0	31,000	40,000
31	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	70,000	288,000	45,000	25,000	0	56,000	49,000	0	25,000	40,000
Total				2.40	681.0	441.5	32,960,000	1,781,000	8,019,000	1,118,000	682,000	0	2,072,000	1,009,000	0	865,000	821,000
Daily Avg				0.08	24.5	15.8	1,175,000	57,000	2'5,000	45,000	28,000	0	77,000	33,000	0	21,000	26,000

Revised by BWP, 4/13/95.

## Notes:

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases -IV).
3. Columns III and IV, field measured.
4. Column V, estimated from depth in Phase IV riser.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIV and XIV.

# DRAFT

YEAR TO DATE LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA

*Don*  
*6*

Month	Leachate Arriving at LTRF		Leachate/Effluent Leaving LTRF				Inflow/Outflow Balance For LTRF		
	Leachate Pumped to LTRF (gal.)	Total Leach. Hauled From LTRF (gal.)	Total Eff. Hauled (gal.)	Leachate Rec. From LTRF (gal.)	Effluent Rec. (gal.)	Effluent Sprayed (gal.)	Total Inflow To LTRF (gal.)	Total Outflow From LTRF (gal.)	Balance For Month (gal.)
Jan	4.0 3,104,000	3,166,000	NR	0	0	0	3,104,000	3,166,000	(62,000)
Feb	2.4 4,063,000	2,942,000	NR	0	0	650,000	4,063,000	3,592,000	471,000
March	1.9 3,385,000	2,320,000	NR	0	113,000	932,000	3,385,000	3,365,000	20,000
April	1.6 2,625,000	1,124,000	393,000	60,000	0	700,000	2,625,000	2,277,000	348,000
May	2.4 2,302,000 1,761,000	862,000	655,000	0	0	1,009,000	1,761,000	2,526,000	(765,000)
JUNE	8.3 2,311,000	904,543	758,000						
YTD Total	14,938,000	10,414,000	1,048,000	60,000	113,000	3,291,000	14,938,000	14,926,000	12,000

Notes:

1. If the effluent bypass is ever used to pump effluent back to the LTRF, this table must be modified.

# DRAFT



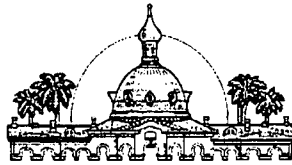
# HILLSBOROUGH COUNTY

Florida

Office of the County Administrator  
Daniel A. Kleman

BOARD OF COUNTY COMMISSIONERS

Dottie Berger  
Phyllis Busansky  
Joe Chillura  
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Senior Assistant County Administrator  
Patricia Bean

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Cretta Johnson  
Jimmie Keel  
Robert Taylor

June 16, 1995

Mr. Kim Ford, P.E.  
Solid Waste Permitting  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**RECEIVED**  
JUN 20 1995

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

RE: Southeast County Landfill - Leachate Management

Dear Mr. Ford:

In accordance with the Hillsborough County Department of Solid Waste's (DSW) Leachate Management Plan for the Southeast County Landfill (Landfill), the DSW is providing the May 1995 Water Balance Report Form for the Landfill. In addition, the DSW is providing the May 1995 effluent and leachate field data forms for the Landfill and the daily leachate and collection system evaluation reports. This submittal also includes the Phase IV Riser Hydrograph for May 1995.

This information is being provided to the Florida Department of Environmental Protection (DEP) and the Hillsborough County Environmental Protection Commission as an update on the DSW's leachate management efforts for the Landfill. This information is being provided in response to both the permitting and enforcement issues at hand.

Should you have any questions concerning the information provided, please call at 276-2908.

Sincerely,

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

Attachments

xc: Matt Matthews, DSW  
Steve Hamilton, SCS  
Steve Morgan, DEP  
Paul Schipfer, EPC

Post Office Box 1110 • Tampa, Florida 33601  
*An Affirmative Action/Equal Opportunity Employer*

**LEACHATE WATER BALANCE REPORT FORM  
MAY 1995**

**SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FL**

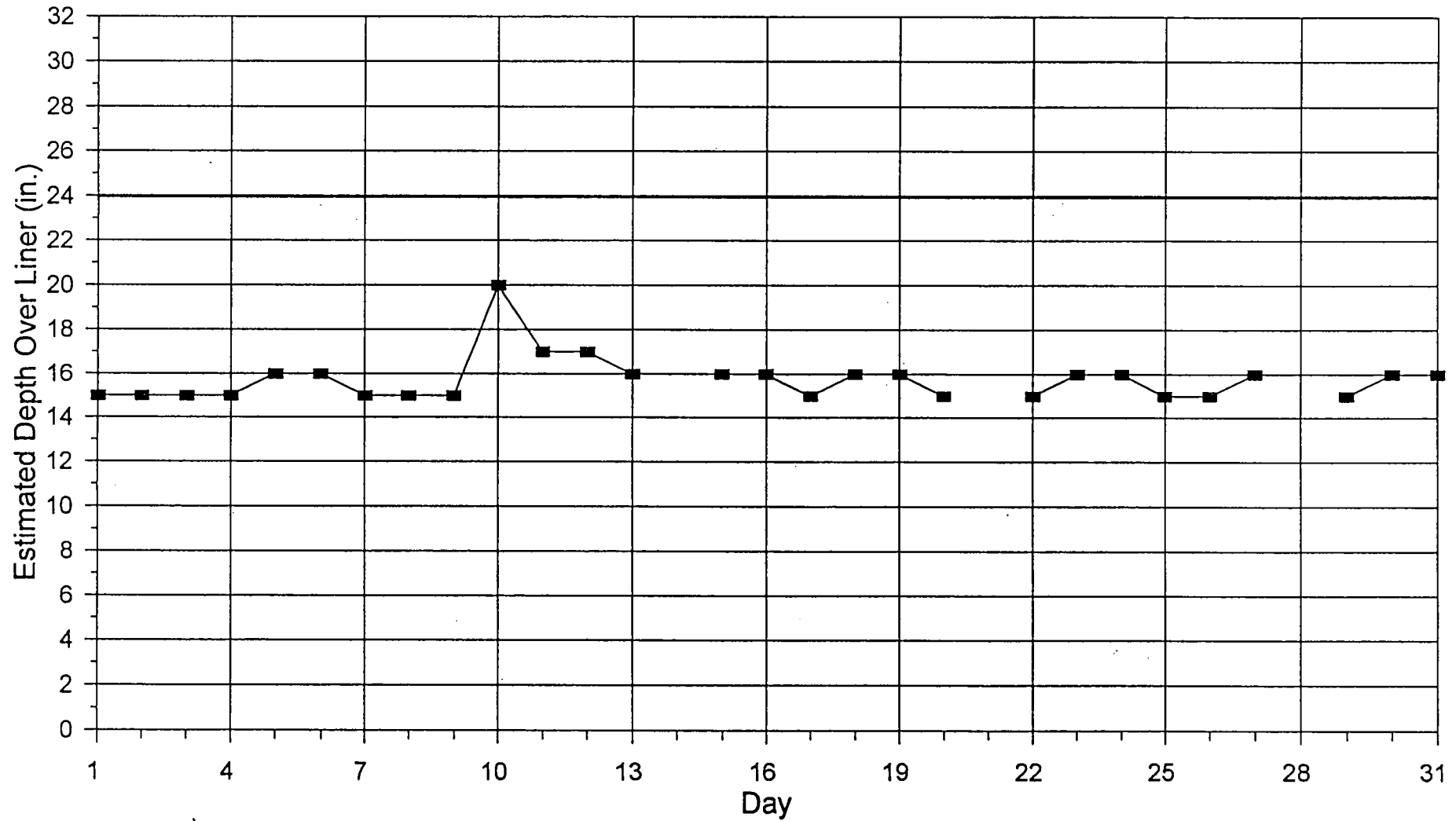
I Day	II Area (acres)			III Rainfall (in.)	IV Depth in Effluent Pond (in.)	V Est. Depth Over Liner (in.)	VI Est. Landfill Storage (gal.)	VII Leachate Pumped to LTRF (gal.)	VIII Leachate in 500K Tank (gal.)	IX Leachate Treated at LTRF (gal.)	X Total Leachate Hauled (gal.)	XI Leachate Recir- culation (gal.)	XII Effluent Pond Storage (gal.)	XIII Effluent Sprayed (gal.)	XIV Effluent Recir- culation (gal.)	XV Total Effluent Hauled (gal.)	XVI Landfill Evapor. (gal.)
	final	active	int.														
1	23.2	5.0	92.2	0.0	22.0	15.0	1,115,000	193,000	317,000	52,000	69,000	0	68,000	49,000	0	25,000	40,000
2	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	45,000	259,000	40,000	62,000	0	55,000	49,000	0	12,000	40,000
3	23.2	5.0	92.2	0.0	23.0	15.0	1,115,000	82,000	259,000	44,000	37,000	0	71,000	49,000	0	25,000	40,000
4	23.2	5.0	92.2	0.0	24.0	15.0	1,115,000	69,000	230,000	36,000	62,000	0	75,000	49,000	0	19,000	40,000
5	23.2	5.0	92.2	0.6	29.0	16.0	1,189,000	74,000	202,000	46,000	58,000	0	92,000	49,000	0	25,000	40,000
6	23.2	5.0	92.2	0.0	18.0	16.0	1,189,000	53,000	173,000	44,000	37,000	0	55,000	0	0	18,000	0
7	23.2	5.0	92.2	0.0	NR	15.0	1,115,000	40,000	173,000	40,000	0	NR	0	0	0	0	0
8	23.2	5.0	92.2	0.0	35.0	15.0	1,115,000	115,000	173,000	47,000	68,000	0	113,000	49,000	0	25,000	40,000
9	23.2	5.0	92.2	0.0	32.0	15.0	1,115,000	88,000	173,000	45,000	43,000	0	102,000	40,000	0	19,000	32,000
10	23.2	5.0	92.2	0.0	29.0	20.0	1,609,000	41,000	144,000	45,000	25,000	0	92,000	40,000	0	25,000	32,000
11	23.2	5.0	92.2	0.0	29.0	17.0	1,264,000	4,000	115,000	20,000	12,000	0	92,000	40,000	0	31,000	32,000
12	23.2	5.0	92.2	0.0	20.0	17.0	1,264,000	93,000	144,000	45,000	18,000	0	61,000	40,000	0	31,000	32,000
13	23.2	5.0	92.2	0.0	NR	16.0	1,189,000	78,000	173,000	49,000	0	0	NR	0	0	0	0
14	23.2	5.0	92.2	0.0	NR	NR	NR	NR	NR	43,000	0	0	NR	0	0	0	0
15	23.2	5.0	92.2	0.0	32.0	16.0	1,189,000	190,000	230,000	46,000	44,000	0	102,000	49,000	0	25,000	40,000
16	23.2	5.0	92.2	0.0	28.0	16.0	1,189,000	65,000	202,000	44,000	50,000	0	88,000	49,000	0	19,000	40,000
17	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	60,000	173,000	45,000	43,000	0	81,000	49,000	0	25,000	40,000
18	23.2	5.0	92.2	0.0	22.0	16.0	1,189,000	64,000	173,000	45,000	19,000	0	68,000	38,000	0	31,000	31,000
19	23.2	5.0	92.2	0.0	15.0	16.0	1,189,000	59,000	202,000	18,000	13,000	0	45,000	38,000	0	37,000	31,000
20	23.2	5.0	92.2	0.9	16.0	15.0	1,115,000	46,000	202,000	46,000	0	0	49,000	0	0	0	0
21	23.2	5.0	92.2	0.2	20.0	NR	NR	NR	NR	45,000	0	0	61,000	0	0	0	0
22	23.2	5.0	92.2	0.0	38.0	15.0	1,115,000	170,000	259,000	24,000	43,000	0	124,000	38,000	0	25,000	31,000
23	23.2	5.0	92.2	0.0	33.0	16.0	1,189,000	36,000	230,000	46,000	19,000	0	106,000	49,000	0	19,000	40,000
24	23.2	5.0	92.2	0.0	29.0	16.0	1,189,000	31,000	230,000	0	31,000	0	92,000	49,000	0	25,000	40,000
25	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	76,000	230,000	45,000	31,000	0	81,000	49,000	0	38,000	40,000
26	23.2	5.0	92.2	0.0	18.0	15.0	1,115,000	58,000	230,000	45,000	12,000	0	55,000	49,000	0	63,000	40,000
27	23.2	5.0	92.2	0.0	10.0	16.0	1,189,000	34,000	259,000	5,000	0	0	30,000	0	0	0	0
28	23.2	5.0	92.2	0.7	NR	NR	NR	NR	NR	45,000	0	0	NR	0	0	0	0
29	23.2	5.0	92.2	0.0	26.0	15.0	1,115,000	125,000	288,000	45,000	6,000	0	81,000	0	0	37,000	0
30	23.2	5.0	92.2	0.0	24.0	16.0	1,189,000	39,000	288,000	1,000	37,000	0	75,000	49,000	0	31,000	40,000
31	23.2	5.0	92.2	0.0	19.0	16.0	1,189,000	70,000	288,000	45,000	25,000	0	58,000	49,000	0	25,000	40,000
Total				2.40	661.0	441.0	32,900,000	2,098,000	6,019,000	1,186,000	862,000	0	2,072,000	1,009,000	0	655,000	821,000
Daily Avg				0.08	24.5	15.8	1,175,000	68,000	215,000	38,000	28,000	0	77,000	33,000	0	21,000	26,000

Revised by BWP, 4/13/95.

**Notes:**

1. NR = No Records.
2. Column II, total area with waste is 120.4 acres (Phases I-IV).
3. Columns III and IV, field measured.
4. Column V, estimated from depth in Phase IV riser.
5. Column VI, estimated from Column V and approximate volume with top of clay elevation at 118.5 feet.
6. Column VII, calculated from Column IX + Column X + Change in Storage of 500,000 gal. tank.
7. Column VIII, calculated from depth in 500,000 gal. leachate tank.
8. Columns IX and XIII, quantities from flow meters.
9. Columns X, XI, XIV, and XV, quantities calculated from truck weight.
10. Column XVI, 80.8% of the daily values from Columns XI, XIII and XIV.

# PHASE IV RISER HYDROGRAPH FOR MAY SOUTHEAST COUNTY LANDFILL



Note: If the estimated depth shows an upward trend above 24 inches, increase the leachate removal rate.

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5-24-95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:



DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-23-95  
Inspector: M. Matthews

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/No) <u>No</u></p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5-27-95

Inspector:

M. Matthews

Rainfall:

0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

To Basin

☐ Severe

☐ A

☐ Moderate

☐ B

☐ Minor

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5-19-95

Inspector:

M. Matthews

Rainfall:

0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
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<p>Observed runoff of effluent to stormwater basins? (Yes/No) <input checked="" type="radio"/></p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table><thead><tr><th>Runoff Type</th><th>To Basin</th></tr></thead><tbody><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></tbody></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-18-95

Inspector: M. Matthews

Rainfall: 0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒ No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5/17/95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5/16/95

Inspector:

M. Matthews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.

Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

To Basin

☐ Severe

☐ A

☐ Moderate

☐ B

☐ Minor

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-15-95  
Inspector: M. Matthews

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Runoff Type	To Basin									
<input type="checkbox"/> Severe	<input type="checkbox"/> A									
<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-12-95

Inspector: M. Matthews

Rainfall: 0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes \_\_\_\_: In compliance.

No \_\_\_\_: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes \_\_\_\_: In compliance.

No \_\_\_\_: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

\_\_\_\_: Normal Operation

\_\_\_\_: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

\_\_\_\_: Normal Operation.

\_\_\_\_: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

\_\_\_\_: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

\_\_\_\_: Normal Operation.

\_\_\_\_: If level is 6 inches or less, stop irrigation/ recirculation/hauling

\_\_\_\_: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
____ Severe	____ A
____ Moderate	____ B
____ Minor	____ C
	____ D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5-11-95

Inspector:

M. Matheson

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-10-95  
Inspector: M. Mather

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
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<p>Effluent Pond</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is 6 inches or less, stop irrigation/ recirculation/hauling</p> <p><input type="checkbox"/>: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.</p>										
<p>Observed runoff of effluent to stormwater basins? (Yes/No) <u>Not</u></p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
Runoff Type	To Basin									
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<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date:

5-9-95

Inspector:

M. Matt Mathews

Rainfall:

0.0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) ☒

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action:

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5.8.95

Inspector: M. Matheson

Rainfall: 0

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

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Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes ☒ No)

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type	To Basin
<input type="checkbox"/> Severe	<input type="checkbox"/> A
<input type="checkbox"/> Moderate	<input type="checkbox"/> B
<input type="checkbox"/> Minor	<input type="checkbox"/> C
	<input type="checkbox"/> D

Comments/Remedial Action: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-5-95

Inspector: M. Matthews

Rainfall: 0.6

Riser Phase IV

Is Riser Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Piezometer Phase IV

Is Piezometer Phase IV below 27.6 inches (2.3 feet)?

Yes ☒: In compliance.

No ☐: Increase leachate removal required.  
Contact supervisor immediately.

Sump No. 4 Phase VI (Stormwater)

☒: Normal Operation

☐: If level is less than level in Riser Phase IV, stop pumping to Basin D.

500,000 Gallon Tank at LTRF

☒: Normal Operation.

☐: If level is greater than 11 feet, increase treatment, hauling, or recirculation.

☐: If level is less than 6 feet, decrease or stop hauling/ recirculation.

Effluent Pond

☒: Normal Operation.

☐: If level is 6 inches or less, stop irrigation/ recirculation/hauling

☐: If level is greater than 4 feet, increase irrigation/ recirculation/hauling.

Observed runoff of effluent to stormwater basins? (Yes/No) No

If Yes: Contact supervisor immediately.

Stop spray irrigation immediately and provide the following information:

Runoff Type

☐ Severe

☐ Moderate

☐ Minor

To Basin

☐ A

☐ B

☐ C

☐ D

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-4-95

Inspector: M. Matheson

Rainfall: 0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Piezometer Phase IV</p> <p>Is Piezometer Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <u>N/A</u>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
<p>Sump No. 4 Phase VI (Stormwater)</p> <p><input checked="" type="checkbox"/>: Normal Operation</p> <p><input type="checkbox"/>: If level is less than level in Riser Phase IV, stop pumping to Basin D.</p>										
<p>500,000 Gallon Tank at LTRF</p> <p><input checked="" type="checkbox"/>: Normal Operation.</p> <p><input type="checkbox"/>: If level is greater than 11 feet, increase treatment, hauling, or recirculation.</p> <p><input type="checkbox"/>: If level is less than 6 feet, decrease or stop hauling/ recirculation.</p>										
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<p>Observed runoff of effluent to stormwater basins? (Yes <u>No</u>)</p> <p>If Yes: Contact supervisor immediately. Stop spray irrigation immediately and provide the following information:</p> <table style="width: 100%; margin-top: 10px;"><tr><td style="width: 50%;">Runoff Type</td><td style="width: 50%;">To Basin</td></tr><tr><td><input type="checkbox"/> Severe</td><td><input type="checkbox"/> A</td></tr><tr><td><input type="checkbox"/> Moderate</td><td><input type="checkbox"/> B</td></tr><tr><td><input type="checkbox"/> Minor</td><td><input type="checkbox"/> C</td></tr><tr><td></td><td><input type="checkbox"/> D</td></tr></table>	Runoff Type	To Basin	<input type="checkbox"/> Severe	<input type="checkbox"/> A	<input type="checkbox"/> Moderate	<input type="checkbox"/> B	<input type="checkbox"/> Minor	<input type="checkbox"/> C		<input type="checkbox"/> D
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	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5.3.95  
Inspector: M. Matthews

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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<input type="checkbox"/> Moderate	<input type="checkbox"/> B									
<input type="checkbox"/> Minor	<input type="checkbox"/> C									
	<input type="checkbox"/> D									

Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: 5-2-95

Inspector: M. Matthews

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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DAILY LEACHATE COLLECTION AND RECOVERY SYSTEM  
EVALUATION REPORT  
SOUTHEAST COUNTY LANDFILL

Date: S-1-95

Inspector: M. Matthews

Rainfall: 0.0

<p>Riser Phase IV</p> <p>Is Riser Phase IV below 27.6 inches (2.3 feet)?</p> <p>Yes <input checked="" type="checkbox"/>: In compliance.</p> <p>No <input type="checkbox"/>: Increase leachate removal required. Contact supervisor immediately.</p>										
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Comments/Remedial Action: \_\_\_\_\_

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

(Month/Year) MAY-1995

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
1	22	52,104	48,600	24,800	—		3804			
2	18	40,190	48,600	12,400	—		—			
3	23	44,243	48,600	24,800	—		—			
4	24	35,584	48,660	18,661	—		—			
5	29	46,207	48,610	24,800	—		—	PM		
6	18	44,174	—	18,448	—		44,174			
7	—	39,940	—	—	—		39,940		—	
8	35	46,530	48,600	24,800	—		—			
9	32	44,537	39,600	18,600	—		4,937			
10	29	44,578	39,600	24,853	—		4,978			
11	29	19,898	39,600	30,944	—		—			
12	20	45,385	39,600	31,060	—		5,785			
13		48,750	—	—	—		48,750			
14		42,840	—	—	—		42,840			
15	32	45,961	48,600	24,787	—					
16	28	44,213	48,600	18,714	—					

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \_\_\_\_\_

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\_\_\_\_\_

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**EFFLUENT DEPTH/QUANTITIES DATA FORM**  
**SOUTHEAST COUNTY LANDFILL**  
 (Month/Year) \_\_\_\_\_

Date	Depth in Effluent Pond (inches)	Leachate Treated (gallons)	Treated Effluent Sprayed (gallons)	Treated Effluent Hauled		Treated Effluent Recirculation (gallons)	Treated Effluent Stored (gallons)	Time at End of Rainfall	(1) Effluent Runoff to Retention Area (Y/N)	Initials
				Contractor (gallons)	County (gallons)					
17	26	45,480	48,600	24,847						
18	22	45,470	37,600	30,966						
19	15	17,622	37,600	37,417			7,870			
20	16	45,780	—	—			45,780			
21	20	45,030	—	—			45,030			
22	38	23,810	37,600	24,655						
23	33	45,910	48,600	18,623						
* 24	29	292	48,600	24,862						
25	26	45,154	48,600	37,968						
26	18	45,154	48,600	62,614						
* 27	10	5,273	—	—			5,273			
28	—	44,614	—	—			44,614			
29	26	45,232	—	37,184			45,232			
* 30	24-1255		48,600	31,041						
31	19	45,030	48,600	24,845						

(1) If yes: Contact Supervisor immediately and stop spray irrigation. Complete Evaluation Report Form.

Comments: \* Power off - \* Power off -

Date: 5/01/95

Time: 0700

Leachate Treated (gallons)	52104
Treated Effluent Stored (gallons)	3504
Treated Effluent Sprayed (gallons)	48600

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower B 8015

Date: 5/02/95

Time: 0700

Leachate Treated (gallons)	40190
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	48650

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

Date: 5-03-95

Time: 0700

Leachate Treated (gallons)	44243
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	48600

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

Date: May 04, 95

Time: 07:00 hrs

Leachate Treated (gallons)	35584
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	48660

Comments: Totalizer Reading Spray Field

Operator Signature: William S. Hornblower 8015B

Date: May 05 95

Time: 07:00 hrs

Leachate Treated (gallons)	46207
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	48610

Comments: Totalizer Reading Sprayfield

Operator Signature: William S. Hornblower 8015B



Date: 5-06-95

Time: 0700

Leachate Treated (gallons)	44174
Treated Effluent Stored (gallons)	44170
Treated Effluent Sprayed (gallons)	10

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

Sun  
Sat.  
Date: 05-07-95

Time: 0700 hr

Leachate Treated (gallons)	39,940
Treated Effluent Stored (gallons)	39,940
Treated Effluent Sprayed (gallons)	0

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

Date: 5-08-95

Time: 0700

Leachate Treated (gallons)	46 530
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	48,600

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Homblower 8015B

Date: 5-09-95

Time: 0700

Leachate Treated (gallons)	44537
Treated Effluent Stored (gallons)	4937
Treated Effluent Sprayed (gallons)	39660

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

Date: 5-10-95

Time: 0700

Leachate Treated (gallons)	44578
Treated Effluent Stored (gallons)	4,978
Treated Effluent Sprayed (gallons)	39600

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J Hornblower 80156

Date: 5-11-95

Time: 0700

Leachate Treated (gallons)	19898
Treated Effluent Stored (gallons)	
Treated Effluent Sprayed (gallons)	39600

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Comments: \_\_\_\_\_  
\_\_\_\_\_  
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Operator Signature: William S. Hornblower 8015B

Date: 5-12-95

Time: 0700

Leachate Treated (gallons)	45 385
Treated Effluent Stored (gallons)	5,785
Treated Effluent Sprayed (gallons)	39600

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William L. Homblower 8015B

Date: 5-13-95

Time: 0700

Leachate Treated (gallons)	48 750
Treated Effluent Stored (gallons)	48 750
Treated Effluent Sprayed (gallons)	0

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Homblower 8015B



Date: 5-14-95

Time: 0700

Leachate Treated (gallons)	42840
Treated Effluent Stored (gallons)	42840
Treated Effluent Sprayed (gallons)	0

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Homblower 8015B

DATE: 5-15-75

TIME: 0800

Leachate Treated (gallons)	45961
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	48,600

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

DATE: 5-16-75

TIME: 0800

Leachate Treated (gallons)	44 213
Treated Effluent Stored (gallons)	<u>0</u>
Treated Effluent Sprayed (gallons)	48,600

Pump Capacity 300 gal/min x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Hombower

DATE: 5-7-75

TIME: 0800

Leachate Treated (gallons)	45,480
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	48,600

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William J. Homblower 8015B

DATE: 5-18-75

TIME: 0800

Leachate Treated (gallons)	45 470
Treated Effluent Stored (gallons)	7,870
Treated Effluent Sprayed (gallons)	37,600

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William J. Homblower 8015B

DATE: 5-19-95

TIME: 0800

Leachate Treated (gallons)	17622 - ?
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	37,600

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Possible  
Comments: Totalizer reset with power failure

Operator Signature: William L. Homblower 8015B

DATE: 5-20-75

TIME: 0800

Leachate Treated (gallons)	45780
Treated Effluent Stored (gallons)	45780
Treated Effluent Sprayed (gallons)	<u>0</u>

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

DATE: 5-21-75

TIME: 0800

Leachate Treated (gallons)	45030
Treated Effluent Stored (gallons)	45030
Treated Effluent Sprayed (gallons)	<del>0</del>

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B



DATE: 5-22-75

TIME: 0800

Leachate Treated (gallons)	23 810
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	37,600

?

Pump Capacity 300 gal/min x \_\_\_\_\_ % = \_\_\_\_\_ x \_\_\_\_\_  
minutes run = \_\_\_\_\_ gal sprayed

Possible: Comments: TOTALIZER Reset (o) with power failure

Operator Signature: William J. Homblow 8015B

Date: 5-23-95

Time: 0800

Leachate Treated (gallons)	45,910
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	48,600

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William L. Hornblower 8015B

Date: 5-24-95

Time: 0800

Leachate Treated (gallons)	292 <del>00</del> ?
Treated Effluent Stored (gallons)	
Treated Effluent Sprayed (gallons)	48,600

Comments: Power failure. Totalizer roll back numbers  
Not True Reading

Operator Signature: William J. Hornblower 8015B

Date: 5-25-95

Time: 0800

Leachate Treated (gallons)	45,154
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	48,600

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

Date: 5-26-95

Time: 0800

Leachate Treated (gallons)	45,154
Treated Effluent Stored (gallons)	<del>0</del>
Treated Effluent Sprayed (gallons)	48,600

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

Date: 5-27-95

Time: 0800

Leachate Treated (gallons)	5273
Treated Effluent Stored (gallons)	5273
Treated Effluent Sprayed (gallons)	0

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B

Date: 5-28-95

Time: 0800

Leachate Treated (gallons)	44614
Treated Effluent Stored (gallons)	44614
Treated Effluent Sprayed (gallons)	<u>0</u>

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William J. Hornblower 8015B

Date: 5-29-95

Time: 0800

Leachate Treated (gallons)	45232
Treated Effluent Stored (gallons)	45232
Treated Effluent Sprayed (gallons)	<u>0</u>

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Hornblower 8015B



Date: 5-30-95

Time: 0800

Leachate Treated (gallons)	-1255
Treated Effluent Stored (gallons)	
Treated Effluent Sprayed (gallons)	48600

Comments: Power failure Totalizer Roll back

Operator Signature: William J. Hornblower 8015B

Date: 5-31-95

Time: 0800

Leachate Treated (gallons)	45030
Treated Effluent Stored (gallons)	0
Treated Effluent Sprayed (gallons)	48600

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Operator Signature: William S. Homblower 8015B