surface water

HILLSBOROUGH COUNTY

Florida

Office of the County Administrator
Daniel A. Kleman

April 16, 1996

Ms. Allison Amram
Department of Environmental Protection
Waste Management Section
3804 Coconut Palm Drive
Tampa , Fl. 33619 8318

RE: Permit #S029-158504 - Southeast County Sanitary Landfill

Dear Ms. Amram:

Enclosed are the results of the routine water quality monitoring of the Southeast Landfill, for the period of February 1, 1996 through April 30, 1996 in accordance with Permit No. S029-158504. Samples were collected by the Department of Solid Waste in February, 1996 and analyzed by Post,Buckley,Schuh and Jernigan, Inc.

A map showing site locations and a summary chart are also enclosed.

If you have any questions or comments on this information, please call me at 276-2920.

Sincerely,

James G. Clayton

James G. Clayton,
Environmental Supervisor
Department of Solid Waste

Enclosures

xc: Chongman Lee , Department of Environmental Protection
Paul Schipfer, EPC
Matt Mathews, Department of Solid Waste
Irene Barnes, Southeast Hillsborough Civic Association
Thomas G. Smith, Department of Solid Waste, w/o enclosures
Greg Walk, General Manager Southeast Landfill
Sheree Henninger, Waste Management Southeast Landfill
Sarah Hill, Department of Solid Waste

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 10:05:00 AM

Report Period: 96/1

Well Name: SURF SITE 1A-1E 960219901

Well Purged (Y/N): N

Classification of Ground Water: G-II

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:

- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units	
95	CONDUCTIVITY	GRAB	N	EPA120.1	194	umhos/cm	10	umhos/cm
403	pH	GRAB	N	EPA150.1	7.78	pH UNITS	.1	pH UNITS
406	pH IN FIELD	GRAB	N	EPA150.1	7.1	pH UNITS	Fld	pH UNITS
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	EPA160.1	126	mg/l	*	mg/l
10	TEMPERATURE IN FIELD	GRAB	N	EPA170.1	15.3	oC	Fld	oC
82079	TURBIDITY	GRAB	N	EPA180.1	12.6	ntu	.1	ntu
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	60	ug/l	20	ug/l
410	TOTAL ALKALINITY	GRAB	N	EPA310.1	59.5	mg/l CaCO3	1	mg/l CaCO3
940	CHLORIDE	GRAB	N	EPA325.2	17.3	mg/l	.5	mg/l
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	2.22	mg/l as N	.1	mg/l as N
630	NITRATE + NITRITE	GRAB	N	EPA353.2	.01	mg/l as N	.01	mg/l as N
600	TOTAL NITROGEN	GRAB	N	EPA353.2	2.23	mg/l as N	.1	mg/l as N
300	DISSOLVED OXYGEN IN FIELD	GRAB	N	EPA360.1	9.65	mg/liter	Fld	mg/liter
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	2.81	mg/l as P	.02	mg/l as P
945	SULFATE	GRAB	N	EPA375.4	3.96	mg/l	1	mg/l
310	BIOCHEMICAL OXYGEN DEMAND	GRAB	N	EPA405.1	7	mg/liter	1	mg/liter
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	54	mg/l	1	mg/l
556	GREASE & OIL	GRAB	N	EPA413.1	< 5	mg/l	5	mg/l
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	16.8	mg/l as C	1	mg/l as C
94	CONDUCTIVITY IN FIELD	GRAB	N	FIELD	206	umhos/cm	Fld	umhos/cm

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 10:05:00 AM

Report Period: 96/1

Well Name: SURF SITE 1A-1E QC 960219902

Well Purged (Y/N):

Classification of Ground Water:

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:

- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units	
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	118000	ug/l	20	ug/l
940	CHLORIDE	GRAB	N	EPA325.2	97	%	.5	%
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	83	%	.1	%
630	NITRATE + NITRITE	GRAB	N	EPA353.2	102	%	.01	%
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	99	%	.02	%
945	SULFATE	GRAB	N	EPA375.4	101	%	1	%
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	100	%	1	%
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	107	%	1	%

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 10:05:00 AM

Report Period: 96/1

Well Name: SURF SITE 1A-1E QC DUP 960219903

Well Purged (Y/N):

Classification of Ground Water:

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:

- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units	
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	116000	ug/l	20	ug/l
940	CHLORIDE	GRAB	N	EPA325.2	93	%	.5	%
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	81	%	.1	%
630	NITRATE + NITRITE	GRAB	N	EPA353.2	100	%	.01	%
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	98	%	.02	%
945	SULFATE	GRAB	N	EPA375.4	101	%	1	%
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	100	%	1	%
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	108	%	1	%

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 8:32:00 AM

Report Period: 96/1

Well Name: SURF SITE 3C2 960219904 Well Purged (Y/N): N

Classification of Ground Water: G-II

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:
- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units
95	CONDUCTIVITY	GRAB	N	EPA120.1	216	umhos/cm	10 umhos/cm
403	pH	GRAB	N	EPA150.1	6.57	pH UNITS	.1 pH UNITS
406	pH IN FIELD	GRAB	N	EPA150.1	6.78	pH UNITS	Fld pH UNITS
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	EPA160.1	134	mg/l	* mg/l
10	TEMPERATURE IN FIELD	GRAB	N	EPA170.1	9.8	oC	Fld oC
82079	TURBIDITY	GRAB	N	EPA180.1	3.85	ntu	.1 ntu
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	337	ug/l	20 ug/l
410	TOTAL ALKALINITY	GRAB	N	EPA310.1	30.1	mg/l CaCO3	1 mg/l CaCO3
940	CHLORIDE	GRAB	N	EPA325.2	20.4	mg/l	.5 mg/l
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	.88	mg/l as N	.1 mg/l as N
630	NITRATE + NITRITE	GRAB	N	EPA353.2	.33	mg/l as N	.01 mg/l as N
600	TOTAL NITROGEN	GRAB	N	EPA353.2	1.21	mg/l as N	.1 mg/l as N
300	DISSOLVED OXYGEN IN FIELD	GRAB	N	EPA360.1	10.34	mg/liter	Fld mg/liter
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	.81	mg/l as P	.02 mg/l as P
945	SULFATE	GRAB	N	EPA375.4	31.9	mg/l	1 mg/l
310	BIOCHEMICAL OXYGEN DEMAND	GRAB	N	EPA405.1	3	mg/liter	1 mg/liter
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	25	mg/l	1 mg/l
556	GREASE & OIL	GRAB	N	EPA413.1	< 5	mg/l	5 mg/l
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	10.7	mg/l as C	1 mg/l as C
94	CONDUCTIVITY IN FIELD	GRAB	N	FIELD	224	umhos/cm	Fld umhos/cm

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 8:20:00 AM

Report Period: 96/1

Well Name: SURF SITE 3B2B 960219905

Well Purged (Y/N): N

Classification of Ground Water: G-II

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:

- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units
95	CONDUCTIVITY	GRAB	N	EPA120.1	257	umhos/cm	10 umhos/cm
403	pH	GRAB	N	EPA150.1	6.47	pH UNITS	.1 pH UNITS
406	pH IN FIELD	GRAB	N	EPA150.1	6.38	pH UNITS	Fld pH UNITS
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	EPA160.1	142	mg/l	* mg/l
10	TEMPERATURE IN FIELD	GRAB	N	EPA170.1	9.7	oC	Fld oC
82079	TURBIDITY	GRAB	N	EPA180.1	3.5	ntu	.1 ntu
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	216	ug/l	20 ug/l
410	TOTAL ALKALINITY	GRAB	N	EPA310.1	20.1	mg/l CaCO3	1 mg/l CaCO3
940	CHLORIDE	GRAB	N	EPA325.2	30.2	mg/l	.5 mg/l
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	.88	mg/l as N	.1 mg/l as N
630	NITRATE + NITRITE	GRAB	N	EPA353.2	.59	mg/l as N	.01 mg/l as N
600	TOTAL NITROGEN	GRAB	N	EPA353.2	1.47	mg/l as N	.1 mg/l as N
300	DISSOLVED OXYGEN IN FIELD	GRAB	N	EPA360.1	8.75	mg/liter	Fld mg/liter
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	.23	mg/l as P	.02 mg/l as P
945	SULFATE	GRAB	N	EPA375.4	44	mg/l	1 mg/l
310	BIOCHEMICAL OXYGEN DEMAND	GRAB	N	EPA405.1	1	mg/liter	1 mg/liter
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	19	mg/l	1 mg/l
556	GREASE & OIL	GRAB	N	EPA413.1	< 5	mg/l	5 mg/l
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	7.06	mg/l as C	1 mg/l as C
94	CONDUCTIVITY IN FIELD	GRAB	N	FIELD	269	umhos/cm	Fld umhos/cm

* Detection Limit depends on amount of sample digested/extracted

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 8:05:00 AM

Report Period: 96/1

Well Name: SURF SITE 3A DUP 960219906

Well Purged (Y/N): N

Classification of Ground Water: G-II

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:

- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units
95	CONDUCTIVITY	GRAB	N	EPA120.1	286	umhos/cm	10 umhos/cm
403	pH	GRAB	N	EPA150.1	6.36	pH UNITS	.1 pH UNITS
406	pH IN FIELD	GRAB	N	EPA150.1	6.97	pH UNITS	Fld pH UNITS
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	EPA160.1	162	mg/l	* mg/l
10	TEMPERATURE IN FIELD	GRAB	N	EPA170.1	8.5	oC	Fld oC
82079	TURBIDITY	GRAB	N	EPA180.1	1.6	ntu	.1 ntu
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	133	ug/l	20 ug/l
410	TOTAL ALKALINITY	GRAB	N	EPA310.1	15.1	mg/l CaCO3	1 mg/l CaCO3
940	CHLORIDE	GRAB	N	EPA325.2	30.7	mg/l	.5 mg/l
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	1.01	mg/l as N	.1 mg/l as N
630	NITRATE + NITRITE	GRAB	N	EPA353.2	1.07	mg/l as N	.01 mg/l as N
600	TOTAL NITROGEN	GRAB	N	EPA353.2	2.08	mg/l as N	.1 mg/l as N
300	DISSOLVED OXYGEN IN FIELD	GRAB	N	EPA360.1	6.64	mg/liter	Fld mg/liter
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	.02	mg/l as P	.02 mg/l as P
945	SULFATE	GRAB	N	EPA375.4	55.6	mg/l	1 mg/l
310	BIOCHEMICAL OXYGEN DEMAND	GRAB	N	EPA405.1	7	mg/liter	1 mg/liter
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	17	mg/l	1 mg/l
556	GREASE & OIL	GRAB	N	EPA413.1	< 5	mg/l	5 mg/l
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	5.33	mg/l as C	1 mg/l as C
94	CONDUCTIVITY IN FIELD	GRAB	N	FIELD	316	umhos/cm	Fld umhos/cm

* Detection Limit depends on amount of sample digested/extracted

Facility GMS #:

Test Site ID #:

Sample Date/Time: 2/13/96 8:05:00 AM

Report Period: 96/1

Well Name: SURF SITE 3A 960219907 Well Purged (Y/N): N

Classification of Ground Water: G-II

Ground Water Elevation (NGVD): NA

Depth to Water (ft.): NA

Well Type:
- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☒ Other

STORET Code	Parameter	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Results/Units		Detection Limits/Units
95	CONDUCTIVITY	GRAB	N	EPA120.1	288	umhos/cm	10 umhos/cm
403	pH	GRAB	N	EPA150.1	6.31	pH UNITS	.1 pH UNITS
406	pH IN FIELD	GRAB	N	EPA150.1	6.97	pH UNITS	Fld pH UNITS
70300	TOTAL DISSOLVED SOLIDS	GRAB	N	EPA160.1	166	mg/l	* mg/l
10	TEMPERATURE IN FIELD	GRAB	N	EPA170.1	8.5	oC	Fld oC
82079	TURBIDITY	GRAB	N	EPA180.1	1.79	ntu	.1 ntu
1045	IRON-ICP METHOD	GRAB	N	EPA200.7	135	ug/l	20 ug/l
410	TOTAL ALKALINITY	GRAB	N	EPA310.1	14.4	mg/l CaCO3	1 mg/l CaCO3
940	CHLORIDE	GRAB	N	EPA325.2	40	mg/l	.5 mg/l
625	TOTAL KJELDAHL NITROGEN	GRAB	N	EPA351.2	1.15	mg/l as N	.1 mg/l as N
630	NITRATE + NITRITE	GRAB	N	EPA353.2	1.07	mg/l as N	.01 mg/l as N
600	TOTAL NITROGEN	GRAB	N	EPA353.2	2.22	mg/l as N	.1 mg/l as N
300	DISSOLVED OXYGEN IN FIELD	GRAB	N	EPA360.1	6.64	mg/liter	Fld mg/liter
665	TOTAL PHOSPHORUS	GRAB	N	EPA365.4	.02	mg/l as P	.02 mg/l as P
945	SULFATE	GRAB	N	EPA375.4	56	mg/l	1 mg/l
310	BIOCHEMICAL OXYGEN DEMAND	GRAB	N	EPA405.1	2	mg/liter	1 mg/liter
340	CHEMICAL OXYGEN DEMAND	GRAB	N	EPA410.2	12	mg/l	1 mg/l
556	GREASE & OIL	GRAB	N	EPA413.1	< 5	mg/l	5 mg/l
680	TOTAL ORGANIC CARBON	GRAB	N	EPA415.1	5.73	mg/l as C	1 mg/l as C
94	CONDUCTIVITY IN FIELD	GRAB	N	FIELD	316	umhos/cm	Fld umhos/cm