

LETTER OF TRANSMITTAL



TO:	John Morris, P.G. FDEP – Southwest District Solid Waste 13051 North Telecom Parkway Tampa, FL 33637	DATE	October 6, 2008
		JOB. NO.	08449-030-03-1300
		RE:	Southeast County Landfill – Pending Permit No. 35435-014-SO Operations Permit Renewal Supplemental Information

WE ARE SENDING YOU VIA:

- | | |
|--|--|
| ☐ U.S. Mail | ☐ UPS Next Day |
| ☐ FedEx | ☒ UPS Ground |
| ☐ Hand Delivery | ☐ Courier |

# Copies	Date	Description
1	10/6/08	Supplemental Information – Correspondence Email, Revised Memo, Revised Groundwater Monitoring Data

THESE ARE TRANSMITTED AS CHECKED BELOW:

- | | |
|--|--|
| ☐ For Approval | ☐ For Your Information |
| ☒ For Your Use | ☒ For Review and Comment |
| ☐ As Requested | ☐ For Your File |
| ☐ For Signature | ☐ Other: |

Dept. of Environmental
Protection

OCT 07 2008

REMARKS:

Southwest District

Susan and John:

Please find attached the supplemental information submitted by email on October 3, 2008 for the SCLF Operations Permit Renewal Application. This includes all revised summary tables and laboratory data. Please call me anytime if you have any questions or comments. Thank you.

Jason

Copies to: Susan Pelz, FDEP
Patty Berry, Hillsborough County
Ron Cope, EPC

Signed

Jason Timmons, P.E.
Project Engineer

NOTE: THIS INFORMATION
EXCEPTED FROM RESPONSES
TO THE LETTER FOR
PENDING PERMIT
35435-014-SO

If enclosures are not as noted, kindly notify us at once.

730 NE Waldo Road, Gainesville, Florida 32641 - 352-377-5821 / FAX 352-377-3166
324 S. Hyde Park Avenue, Suite 250, Tampa, Florida 33606 - 813-258-0703 / FAX 813-254-6860
1100 Cesery Boulevard, Jacksonville, Florida 32211 - 904-744-5401 / FAX 904-744-6267
3910 S. Washington Avenue, Suite 210, Titusville, Florida 32796 - 321-269-2950 / FAX 321-269-2951

Jason Timmons

From: Jason Timmons
Sent: Friday, October 03, 2008 4:58 PM
To: 'Susan.Pelz@dep.state.fl.us'; 'Morris, John R.'
Cc: 'PATRICIA BERRY'; 'Megan Miller'; 'David Adams'; 'Joseph O'Neill'; Thomas Brown
Subject: Hillsborough Southeast County Landfill, Pending Permit No. 35435-014-SO, Operation Permit Renewal Supplemental Information

Susan and John:

As requested by telephone and email correspondence (provided below) on 9/5/2008, the following and attached information is being provided to supplement the document submitted on August 8, 2008 to complete the Operation Permit Renewal Application for the Southeast County Landfill Phases I-VI and Sections 7, 8, and 9.

Response 4a of the Jones Edmunds memorandum (revised memo is attached) has been revised to clarify the information used to generate the estimated top of clay contours submitted as Appendix 5 of the Ardaman memo is attached. The estimated top of clay contours were generated using topographic information from July 2006 as well as clay evaluation data collected in February and March 2007. In addition, to confirm the testing program described in the Jones Edmunds memorandum, an in-situ, undisturbed, clay sample will be collected from beneath a particular phase approximately one year before filling operations will continue in that particular phase. The sample will be tested and the information used to model the conditions described in the memo.

Also attached are the revised analytical tables for the August 2005 sampling event to include the resample of TH-22A. The complete set of tables and laboratory data for TH-19 and TH-22A will be sent hardcopy to your offices on Monday to replace the summary tables provided in Appendix B-1 and B-2 of the MPE document. The PDF file for these documents is too large to send via email.

Please contact me if you have any questions or need any additional information to complete the application.

Thank you.

Jason



Memorandum.pdf
(116 KB)



Hillsborough_Revision
Tables - ...

Jason Timmons, P.E.
Project Engineer

Jones Edmunds & Associates, Inc.
324 S. Hyde Park Avenue, Suite 250
Tampa, FL 33606
Phone: 813.258.0703
Fax: 813.254.6860
www.jonesedmunds.com

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-----Original Message-----

9/22/2008 8:33:51AM

Client: HILLSBOROUGH CO. SOLID WASTE MGMT L Work Order: OOH0468
P.O. BOX 1110 Project Name: SE LANDFILL WELL MON. PROGRAM
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON Date Received: 08/24/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
TH-67	OOH0468-01	08/24/05 09:45
TH-64	OOH0468-02	08/24/05 11:55
TH-61	OOH0468-03	08/24/05 11:30
TH-19	OOH0468-04	08/24/05 12:40
TH-22-A	OOH0468-05	08/24/05 13:20
TH-38-B	OOH0468-06	08/24/05 10:20
TH-66	OOH0468-07	08/24/05 09:50
EQUIPMENT BLANK	OOH0468-08	08/24/05 09:10
TH-65	OOH0468-09	08/24/05 10:55
TRAVEL BLANK	OOH0468-10	08/24/05 09:05

Samples were received into laboratory at a temperature of 4.00 °C.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately.

Results are reported on a wet weight basis unless otherwise noted

The reported results were obtained in compliance with 2003 NELAC standards unless otherwise noted.

These results relate only to the items tested

Estimated uncertainty is available upon request.

This report has been electronically signed.

Approved By:



TestAmerica Orlando
Enid Ortiz For Judy Beato
Project Manager

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI Work Order: OOH0468 Sampled: 08/24/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROGRAM Received: 08/24/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: **TH-19** - Lab Number: OOH0468-04 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Specific Conductance (EC)	384		uS/cm	NA	NA	1	08/24/05 12:40	CLI	EPA 120.1	5H25007
NA	Dissolved Oxygen	1.45		mg/L	NA	NA	1	08/24/05 12:40	CLI	EPA 360.2	5H25007
PH	pH	7.26		pH Units	NA	NA	1	08/24/05 12:40	CLI	EPA 150.1	5H25007
TEMP	Temperature	23.8		°C	NA	NA	1	08/24/05 12:40	CLI	EPA 170.1	5H25007
NA	Turbidity	0.60		NTU	NA	NA	1	08/24/05 12:40	CLI	EPA 180.1	5H25007
na	Sample Depth	90.9		Feet	NA	NA	1	08/24/05 12:40	CLI	NA	5H25007
na	Total Depth	154		Feet	NA	NA	1	08/24/05 12:40	CLI	NA	5H25007
General Chemistry Parameters											
7664-41-7	Ammonia as N	0.262		mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29031
C010	Total Dissolved Solids	266		mg/L	3.00	5.00	1	08/26/05 12:28	DGC	EPA 160.1	5H25017
16887-00-6	Chloride	7.42		mg/L	2.00	2.00	1	08/25/05 14:41	BDG	EPA 300.0	5H25018
14797-55-8	Nitrate as N	0.0190	U	mg/L	0.0190	0.0200	1	08/25/05 14:41	BDG	EPA 300.0	5H25018
Metals											
7440-36-0	Antimony	0.00748	I	mg/L	0.00500	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-39-3	Barium	0.00603	I	mg/L	0.00100	0.0100	1	08/26/05 18:44	AXC	EPA 6010B	5H25003
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/26/05 18:45	AXC	EPA 6010B	5H25003
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-47-3	Chromium	0.00100	U	mg/L	0.00100	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/26/05 18:45	AXC	EPA 6010B	5H25003
7439-89-6	Iron	0.0201	I	mg/L	0.0100	0.0500	1	08/26/05 18:45	AXC	EPA 6010B	5H25003
7439-92-1	Lead	0.00809	I	mg/L	0.00300	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7439-97-6	Mercury	0.000156	I	mg/L	0.0000500	0.000200	1	08/25/05 15:33	GCT	EPA 7470A	5H25002
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:45	AXC	EPA 6010B	5H25003
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/30/05 20:49	AXC	EPA 6010B	5H25003
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/26/05 18:45	AXC	EPA 6010B	5H25003
7440-23-5	Sodium	13.2		mg/L	0.110	0.500	1	08/26/05 18:44	AXC	EPA 6010B	5H25003
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-62-2	Vanadium	0.000500	U	mg/L	0.000500	0.0100	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
7440-66-6	Zinc	0.0339	I	mg/L	0.0235	0.0500	1	08/26/05 18:46	AXC	EPA 6010B	5H25003
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/30/05 21:09	SKH	EPA 8011	5H26043
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/30/05 21:09	SKH	EPA 8011	5H26043
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
79-34-5	1,1,2,2-Tetrachloroethane	0.115	U	ug/L	0.115	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
79-00-5	1,1,2-Trichloroethane	0.310	U	ug/L	0.310	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-34-3	1,1-Dichloroethane	0.172	U	ug/L	0.172	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-35-4	1,1-Dichloroethene	0.268	U	ug/L	0.268	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
96-18-4	1,2,3-Trichloropropane	0.277	U	ug/L	0.277	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
96-12-8	1,2-Dibromo-3-chloropropane	0.880	U	ug/L	0.880	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI
P.O. BOX 1110
TAMPA, FL 33601
Attn: JIM CLAYTON

Work Order: OOH0468
Project: SE LANDFILL WELL MON. PROGRAM
Project Number: WO#0001

Sampled: 08/24/05
Received: 08/24/05

LABORATORY REPORT

Sample ID: TH-19 - Lab Number: OOH0468-04 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
106-93-4	1,2-Dibromochloroethane (EDB)	0.147	J3,U	ug/L	0.147	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
95-50-1	1,2-Dichlorobenzene	0.151	U	ug/L	0.151	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
107-06-2	1,2-Dichloroethane	0.0868	U	ug/L	0.0868	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
78-87-5	1,2-Dichloropropane	0.0886	U	ug/L	0.0886	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
106-46-7	1,4-Dichlorobenzene	0.0975	U	ug/L	0.0975	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
78-93-3	2-Butanone	0.729	U	ug/L	0.729	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
591-78-6	2-Hexanone	0.835	U	ug/L	0.835	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
108-10-1	4-Methyl-2-pentanone	0.354	U	ug/L	0.354	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
67-64-1	Acetone	1.30	U	ug/L	1.30	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
107-13-1	Acrylonitrile	0.586	U	ug/L	0.586	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
71-43-2	Benzene	0.143	U	ug/L	0.143	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
74-97-5	Bromochloromethane	0.301	U	ug/L	0.301	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-27-4	Bromodichloromethane	0.184	J3,U	ug/L	0.184	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-25-2	Bromoform	0.245	U	ug/L	0.245	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
74-83-9	Bromomethane	0.357	U	ug/L	0.357	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-15-0	Carbon disulfide	0.140	U	ug/L	0.140	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
56-23-5	Carbon Tetrachloride	0.406	J3,U	ug/L	0.406	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
108-90-7	Chlorobenzene	0.105	U	ug/L	0.105	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
124-48-1	Chlorodibromomethane	0.157	J3,U	ug/L	0.157	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-00-3	Chloroethane	0.316	U	ug/L	0.316	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
67-66-3	Chloroform	0.111	U	ug/L	0.111	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
74-87-3	Chloromethane	0.320	U	ug/L	0.320	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
156-59-2	cis-1,2-Dichloroethene	0.278	U	ug/L	0.278	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
10061-01-5	cis-1,3-Dichloropropene	0.152	U	ug/L	0.152	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
74-95-3	Dibromomethane	0.216	J3,U	ug/L	0.216	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
100-41-4	Ethylbenzene	0.201	U	ug/L	0.201	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
74-88-4	Iodomethane	0.160	U	ug/L	0.160	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-09-2	Methylene Chloride	0.174	U	ug/L	0.174	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
100-42-5	Styrene	0.173	U	ug/L	0.173	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
127-18-4	Tetrachloroethene	0.242	U	ug/L	0.242	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
108-88-3	Toluene	0.142	U	ug/L	0.142	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
156-60-5	trans-1,2-Dichloroethene	0.237	U	ug/L	0.237	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
10061-02-6	trans-1,3-Dichloropropene	0.192	U	ug/L	0.192	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
110-57-6	trans-1,4-Dichloro-2-butene	0.264	U	ug/L	0.264	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
79-01-6	Trichloroethene	0.224	U	ug/L	0.224	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-69-4	Trichlorofluoromethane	1.00	U	ug/L	1.00	1.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
108-05-4	Vinyl acetate	0.750	U	ug/L	0.750	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/25/05 17:31	JLS	EPA 8260B	5H26017
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		136 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		100 %									
Surrogate: Dibromofluoromethane (80-120%)		130 %	J1								
Surrogate: Toluene-d8 (80-117%)		107 %									

TestAmerica Orlando
Enid Ortiz For Judy Beato
Project Manager

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI Work Order: OOH0468 Sampled: 08/24/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROGRAM Received: 08/24/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: **TH-22-A** - Lab Number: OOH0468-05 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Specific Conductance (EC)	286		uS/cm	NA	NA	1	08/24/05 13:20	CLI	EPA 120.1	5H25007
NA	Dissolved Oxygen	1.36		mg/L	NA	NA	1	08/24/05 13:20	CLI	EPA 360.2	5H25007
PH	pH	4.70		pH Units	NA	NA	1	08/24/05 13:20	CLI	EPA 150.1	5H25007
TEMP	Temperature	25.0		°C	NA	NA	1	08/24/05 13:20	CLI	EPA 170.1	5H25007
NA	Turbidity	190		NTU	NA	NA	1	08/24/05 13:20	CLI	EPA 180.1	5H25007
na	Sample Depth	4.52		Feet	NA	NA	1	08/24/05 13:20	CLI	NA	5H25007
na	Total Depth	27.9		Feet	NA	NA	1	08/24/05 13:20	CLI	NA	5H25007
General Chemistry Parameters											
7664-41-7	Ammonia as N	1.03		mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29031
C010	Total Dissolved Solids	214		mg/L	3.00	5.00	1	08/26/05 12:28	DGC	EPA 160.1	5H25017
16887-00-6	Chloride	20.9		mg/L	2.00	2.00	1	08/25/05 15:04	BDG	EPA 300.0	5H25018
14797-55-8	Nitrate as N	0.0190	U	mg/L	0.0190	0.0200	1	08/25/05 15:04	BDG	EPA 300.0	5H25018
Metals											
7440-36-0	Antimony	0.00500	U	mg/L	0.00500	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-39-3	Barium	0.218		mg/L	0.00100	0.0100	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/26/05 18:50	AXC	EPA 6010B	5H25003
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-47-3	Chromium	0.0339		mg/L	0.00100	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7439-89-6	Iron	1.22		mg/L	0.0100	0.0500	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7439-92-1	Lead	0.00760	I	mg/L	0.00300	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7439-97-6	Mercury	0.000236		mg/L	0.0000500	0.000200	1	08/25/05 15:34	GCT	EPA 7470A	5H25002
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/30/05 20:54	AXC	EPA 6010B	5H25003
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/26/05 18:50	AXC	EPA 6010B	5H25003
7440-23-5	Sodium	6.07		mg/L	0.110	0.500	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-62-2	Vanadium	0.0149		mg/L	0.000500	0.0100	1	08/26/05 18:50	AXC	EPA 6010B	5H25003
7440-66-6	Zinc	0.0279	I	mg/L	0.0235	0.0500	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/30/05 21:48	SKH	EPA 8011	5H26043
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/30/05 21:48	SKH	EPA 8011	5H26043
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
79-34-5	1,1,2,2-Tetrachloroethane	0.115	U	ug/L	0.115	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
79-00-5	1,1,2-Trichloroethane	0.310	U	ug/L	0.310	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-34-3	1,1-Dichloroethane	0.172	U	ug/L	0.172	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-35-4	1,1-Dichloroethene	0.268	U	ug/L	0.268	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
96-18-4	1,2,3-Trichloropropane	0.277	U	ug/L	0.277	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
96-12-8	1,2-Dibromo-3-chloropropane	0.880	U	ug/L	0.880	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI
P.O. BOX 1110
TAMPA, FL 33601
Attn: JIM CLAYTON

Work Order: OOH0468
Project: SE LANDFILL WELL MON. PROGRAM
Project Number: WO#0001

Sampled: 08/24/05
Received: 08/24/05

LABORATORY REPORT

Sample ID: TH-22-A - Lab Number: OOH0468-05 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
106-93-4	1,2-Dibromoethane (EDB)	0.147	J3,U	ug/L	0.147	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
95-50-1	1,2-Dichlorobenzene	0.151	U	ug/L	0.151	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
107-06-2	1,2-Dichloroethane	0.0868	U	ug/L	0.0868	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
78-87-5	1,2-Dichloropropane	0.0886	U	ug/L	0.0886	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
106-46-7	1,4-Dichlorobenzene	0.0975	U	ug/L	0.0975	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
78-93-3	2-Butanone	0.729	U	ug/L	0.729	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
591-78-6	2-Hexanone	0.835	U	ug/L	0.835	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
108-10-1	4-Methyl-2-pentanone	0.354	U	ug/L	0.354	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
67-64-1	Acetone	1.30	U	ug/L	1.30	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
107-13-1	Acrylonitrile	0.586	U	ug/L	0.586	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
71-43-2	Benzene	0.143	U	ug/L	0.143	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
74-97-5	Bromochloromethane	0.301	U	ug/L	0.301	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-27-4	Bromodichloromethane	0.184	J3,U	ug/L	0.184	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-25-2	Bromoform	0.245	U	ug/L	0.245	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
74-83-9	Bromomethane	0.357	U	ug/L	0.357	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-15-0	Carbon disulfide	0.140	U	ug/L	0.140	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
56-23-5	Carbon Tetrachloride	0.406	J3,U	ug/L	0.406	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
108-90-7	Chlorobenzene	0.105	U	ug/L	0.105	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
124-48-1	Chlorodibromomethane	0.157	J3,U	ug/L	0.157	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-00-3	Chloroethane	0.316	U	ug/L	0.316	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
67-66-3	Chloroform	0.111	U	ug/L	0.111	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
74-87-3	Chloromethane	0.320	U	ug/L	0.320	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
156-59-2	cis-1,2-Dichloroethene	0.278	U	ug/L	0.278	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
10061-01-5	cis-1,3-Dichloropropene	0.152	U	ug/L	0.152	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
74-95-3	Dibromomethane	0.216	J3,U	ug/L	0.216	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
100-41-4	Ethylbenzene	0.201	U	ug/L	0.201	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
74-88-4	Iodomethane	0.160	U	ug/L	0.160	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-09-2	Methylene Chloride	0.174	U	ug/L	0.174	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
100-42-5	Styrene	0.173	U	ug/L	0.173	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
127-18-4	Tetrachloroethene	0.242	U	ug/L	0.242	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
108-88-3	Toluene	0.142	U	ug/L	0.142	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
156-60-5	trans-1,2-Dichloroethene	0.237	U	ug/L	0.237	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
10061-02-6	trans-1,3-Dichloropropene	0.192	U	ug/L	0.192	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
110-57-6	trans-1,4-Dichloro-2-butene	0.264	U	ug/L	0.264	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
79-01-6	Trichloroethene	0.224	U	ug/L	0.224	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-69-4	Trichlorofluoromethane	1.00	U	ug/L	1.00	1.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
108-05-4	Vinyl acetate	0.750	U	ug/L	0.750	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		134 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		98 %									
Surrogate: Dibromofluoromethane (80-120%)		132 %	J1								
Surrogate: Toluene-d8 (80-117%)		110 %									

TestAmerica Orlando
Enid Ortiz For Judy Beato
Project Manager

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI Work Order: OOH0468 Sampled: 08/24/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROGRAM Received: 08/24/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: TH-19 - Lab Number: OOH0468-04 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Total Metals by EPA Method 6010B											
7439-92-1	Lead	0.00240	U	mg/L	0.00240	0.00500	1	09/29/05 16:00	CLO	SW846 6010B5094421	

LABORATORY REPORT

Sample ID: TH-22-A - Lab Number: OOH0468-05 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Specific Conductance (EC)	286		uS/cm	NA	NA	1	08/24/05 13:20	CLI	EPA 120.1	5H25007
NA	Dissolved Oxygen	1.36		mg/L	NA	NA	1	08/24/05 13:20	CLI	EPA 360.2	5H25007
PH	pH	4.70		pH Units	NA	NA	1	08/24/05 13:20	CLI	EPA 150.1	5H25007
TEMP	Temperature	25.0		°C	NA	NA	1	08/24/05 13:20	CLI	EPA 170.1	5H25007
NA	Turbidity	186		NTU	NA	NA	1	08/24/05 13:20	CLI	EPA 180.1	5H25007
NA	Sample Depth	4.52		Feet	NA	NA	1	08/24/05 13:20	CLI	NA	5H25007
NA	Total Depth	27.9		Feet	NA	NA	1	08/24/05 13:20	CLI	NA	5H25007
General Chemistry Parameters											
7664-41-7	Ammonia as N	1.03		mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29031
C010	Total Dissolved Solids	214		mg/L	3.00	5.00	1	08/26/05 12:28	DGC	EPA 160.1	5H25017
16887-00-6	Chloride	20.9		mg/L	2.00	2.00	1	08/25/05 15:04	BDG	EPA 300.0	5H25018
14797-55-8	Nitrate as N	0.0190	U	mg/L	0.0190	0.0200	1	08/25/05 15:04	BDG	EPA 300.0	5H25018
Metals											
7440-36-0	Antimony	0.00500	U	mg/L	0.00500	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-38-2	Arsenic	0.00400	U	mg/L	0.00400	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-39-3	Barium	0.218		mg/L	0.00100	0.0100	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/26/05 18:50	AXC	EPA 6010B	5H25003
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-47-3	Chromium	0.0339		mg/L	0.00100	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-48-4	Cobalt	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7439-89-6	Iron	1.22		mg/L	0.0100	0.0500	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7439-97-6	Mercury	0.000236		mg/L	0.0000500	0.000200	1	08/25/05 15:34	GCT	EPA 7470A	5H25002
7440-02-0	Nickel	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/30/05 20:54	AXC	EPA 6010B	5H25003
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/26/05 18:50	AXC	EPA 6010B	5H25003
7440-23-5	Sodium	6.07		mg/L	0.110	0.500	1	08/26/05 18:49	AXC	EPA 6010B	5H25003
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
7440-62-2	Vanadium	0.0149		mg/L	0.000500	0.0100	1	08/26/05 18:50	AXC	EPA 6010B	5H25003
7440-66-6	Zinc	0.0279	I	mg/L	0.0235	0.0500	1	08/26/05 18:51	AXC	EPA 6010B	5H25003
EDB and DBCP by EPA Method 8011											
106-93-4	1,2-Dibromoethane (EDB)	0.00360	U	ug/L	0.00360	0.0200	1	08/30/05 21:48	SKH	EPA 8011	5H26043
96-12-8	1,2-Dibromo-3-chloropropane	0.00240	U	ug/L	0.00240	0.0200	1	08/30/05 21:48	SKH	EPA 8011	5H26043
Volatile Organic Compounds by EPA Method 8260B											
630-20-6	1,1,1,2-Tetrachloroethane	0.199	U	ug/L	0.199	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
71-55-6	1,1,1-Trichloroethane	0.271	U	ug/L	0.271	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017

Client: HILLSBOROUGH CO. SOLID WASTE MGMT DI Work Order: OOH0468 Sampled: 08/24/05
P.O. BOX 1110 Project: SE LANDFILL WELL MON. PROGRAM Received: 08/24/05
TAMPA, FL 33601 Project Number: WO#0001
Attn: JIM CLAYTON

LABORATORY REPORT

Sample ID: TH-22-A - Lab Number: OOH0468-05 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
75-01-4	Vinyl chloride	0.302	U	ug/L	0.302	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
1330-20-7	Xylenes, total	0.220	U	ug/L	0.220	2.00	1	08/25/05 17:48	JLS	EPA 8260B	5H26017
Surrogate: 1,2-Dichloroethane-d4 (72.3-161%)		134 %									
Surrogate: 4-Bromofluorobenzene (74-121%)		98 %									
Surrogate: Dibromofluoromethane (89-131%)		132 %									
Surrogate: Toluene-d8 (80-117%)		110 %									
Total Metals by EPA Method 6010B											
7439-92-1	Lead	0.0172		mg/L	0.00240	0.00500	1	09/29/05 16:04	CLO	SW846 6010B	5094421

LABORATORY REPORT

Sample ID: TH-38-B - Lab Number: OOH0468-06 - Matrix: Water - NonPotable

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Field Sampling Parameters											
NA	Specific Conductance (EC)	73.0		uS/cm	NA	NA	1	08/24/05 10:20	CLI	EPA 120.1	5H25007
NA	Dissolved Oxygen	1.65		mg/L	NA	NA	1	08/24/05 10:20	CLI	EPA 360.2	5H25007
PH	pH	5.32		pH Units	NA	NA	1	08/24/05 10:20	CLI	EPA 150.1	5H25007
TEMP	Temperature	27.2		°C	NA	NA	1	08/24/05 10:20	CLI	EPA 170.1	5H25007
NA	Turbidity	35.1		NTU	NA	NA	1	08/24/05 10:20	CLI	EPA 180.1	5H25007
NA	Sample Depth	8.50		Feet	NA	NA	1	08/24/05 10:20	CLI	NA	5H25007
NA	Total Depth	15.6		Feet	NA	NA	1	08/24/05 10:20	CLI	NA	5H25007
General Chemistry Parameters											
7664-41-7	Ammonia as N	1.33		mg/L	0.0200	0.0300	1	08/26/05 14:55	IRK	EPA 350.1	5H29031
C010	Total Dissolved Solids	88.0		mg/L	3.00	5.00	1	08/26/05 12:28	DGC	EPA 160.1	5H25017
16887-00-6	Chloride	3.52		mg/L	2.00	2.00	1	08/25/05 16:12	BDG	EPA 300.0	5H25018
14797-55-8	Nitrate as N	0.0190	U	mg/L	0.0190	0.0200	1	08/25/05 16:12	BDG	EPA 300.0	5H25018
Metals											
7440-36-0	Antimony	0.00500	U	mg/L	0.00500	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-38-2	Arsenic	0.00440	I	mg/L	0.00400	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-39-3	Barium	0.0642		mg/L	0.00100	0.0100	1	08/26/05 18:54	AXC	EPA 6010B	5H25003
7440-41-7	Beryllium	0.00100	U	mg/L	0.00100	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-43-9	Cadmium	0.000400	U	mg/L	0.000400	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-47-3	Chromium	0.00674	I	mg/L	0.00100	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-48-4	Cobalt	0.00151	I	mg/L	0.000400	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-50-8	Copper	0.00700	U	mg/L	0.00700	0.0100	1	08/26/05 18:54	AXC	EPA 6010B	5H25003
7439-89-6	Iron	2.27		mg/L	0.0100	0.0500	1	08/26/05 18:54	AXC	EPA 6010B	5H25003
7439-92-1	Lead	0.00300	U	mg/L	0.00300	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7439-97-6	Mercury	0.000156	I	mg/L	0.0000500	0.000200	1	08/25/05 15:36	GCT	EPA 7470A	5H25002
7440-02-0	Nickel	0.00236	I	mg/L	0.00200	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7782-49-2	Selenium	0.00600	U	mg/L	0.00600	0.0100	1	08/30/05 20:58	AXC	EPA 6010B	5H25003
7440-22-4	Silver	0.00532	U	mg/L	0.00532	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003
7440-23-5	Sodium	3.15		mg/L	0.110	0.500	1	08/26/05 18:54	AXC	EPA 6010B	5H25003
7440-28-0	Thallium	0.00200	U	mg/L	0.00200	0.0100	1	08/26/05 18:55	AXC	EPA 6010B	5H25003