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April 17, 2013

Mr. John Morris, P.G.
Florida Department of Environmental Protection
Waste Management Section
13051 Telecom Parkway
Temple Terrace, FL 33637

**RE: Southeast County Landfill
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 30 – February 2013**

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of our continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. This monthly sampling event was conducted on February 7-8, 2013, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples were collected from eleven (11) on-site groundwater monitoring wells and two (2) on-site limited use potable supply wells. Samples collected from the groundwater monitoring wells and the on-site supply wells were analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters. The following paragraphs summarize the findings from this sampling event, and the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

pH

The surficial aquifer monitoring wells continue to exhibit pH values below the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5 to 8.5 pH units. The pH values in the surficial range from 4.39 to 5.94 pH units. The pH values within the surficial aquifer across the SCLF have historically been observed below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in each of the four (4) upper Floridan groundwater monitoring wells and the two (2) supply wells were within the acceptable range, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. During this sampling event, values ranged from 0.51 to 6.35 Nephelometric Turbidity Units (NTU) in the surficial aquifer wells, and from 0 to 10.3 NTU in the upper Floridan wells.

Conductivity

The conductivity values in most of the groundwater monitoring wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. The conductivity values observed in the surficial aquifer ranged from 184 to 598 micromhos per centimeter (umhos/cm). The conductivity values observed in the upper Floridan groundwater monitoring wells at the site are generally low. However, during this sampling event TH-72 continues to exhibit elevated conductivity at a value of 2,206 umhos/cm.

Total Dissolved Solids (TDS)

The TDS values observed in the surficial aquifer groundwater monitoring wells were all observed below the SDWS of 500 mg/l. The TDS observed in TH-72 was above the SDWS at 1,100 mg/l.

Chloride

Chloride values in the surficial aquifer groundwater monitoring wells ranged in concentration from 29 to 160 mg/l, which are all below the SDWS of 250 mg/l. The chloride value observed in TH-72 continued to be elevated this month with a result of 470 mg/l. Chloride values are historically very low in the upper Floridan aquifer monitoring wells and limited use potable supply wells, and these other wells all continue to exhibit very low chloride values.

Sodium

Sodium values in the surficial aquifer groundwater monitoring wells ranged in concentration from 12 to 33 mg/l, which are all below the PDWS of 160 mg/l. The sodium value observed in TH-72 was 160 mg/l, which is at the PDWS.

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Arsenic

The arsenic observed in TH-58 during this sampling event was 0.025 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present in TH-58 at almost the same concentration for well over ten years. Although significant changes in water quality were observed in TH-58 shortly after formation of the sinkhole, the arsenic values continued to remain very stable. This observation continues to support the position that the arsenic is not attributable to the landfill or the sinkhole, and is likely naturally occurring within the soils surrounding the well. Arsenic is potentially being mobilized in the anaerobic environment below the lined landfill.

Iron

Total iron concentrations in the seven (7) surficial aquifer wells were all observed above the SDWS of 0.3 mg/l. The elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are consistent with background water quality, and are likely naturally occurring and/or the result of past strip mining activities. The concentrations of iron in the upper Floridan wells were below the SDWS, except in TH-72, which exhibited a concentration of 1.1 mg/l, respectively.

Total Ammonia

The upper Floridan well TH-72 continues to exhibit ammonia above the GCTL of 2.8 mg/l at a concentration of 13 mg/l. The source of the ammonia observed in the groundwater in the immediate vicinity of the sinkhole is likely attributable to groundwater migrating downward through waste in the sinkhole and the fluids associated with the grout materials introduced into the subsurface to stabilize the area.

Groundwater Elevations and Direction of Flow

The County has collected monthly groundwater and surface water elevation data at sixty-three (63) points across the site, including twenty eight (28) surficial aquifer wells, five (5) upper Floridan (limestone) aquifer wells, twenty three (23) piezometers, and seven (7) surface water sites. The elevation data is collected the day before the IAMP sampling event, which was February 6, 2013. No significant changes to flow patterns were noted in February or over the period of record. The general direction of flow within the surficial aquifer has historically been to the west northwest across the Southeast County Landfill site. The elevations observed within the wells closest to the sinkhole indicate that flow patterns may be affected in the immediate vicinity, which would not be unexpected. The overall direction of flow remains toward the west/northwest across the site.

Conclusions

The water quality observed in the February 2013 sampling event continues to indicate the wells closest to the sinkhole have exhibited changes in water quality. Based on the proximity of the wells and the trends observed, it is apparent that these impacts are likely attributable to the waste within the sinkhole and the fluids introduced during the grouting activities.

The impacts observed in the upper Floridan aquifer monitoring well, TH-72, continue to exhibit elevated concentrations of conductivity, TDS, chloride, ammonia, iron and sodium. These changes in water quality were not unexpected in the upper Floridan / Limestone aquifer monitoring well located immediately adjacent to the sinkhole.

Recommendations

As agreed during our discussions with the FDEP Southwest District, the County has installed two additional upper Floridan / Limestone aquifer monitoring wells in the down gradient direction in order to evaluate the potential horizontal extent of the impacts observed in TH-72. The location of these wells is approximately 200-300 feet west/southwest of the sinkhole and TH-72. The two new wells are designated as TH-76 and TH-77, and a well completion report with a revised IAMP location map will be provided for your review once completed.

The County requests approval for implementation of changes to the monitoring plan as discussed in our meeting on March 9, 2013. The upper Floridan monitoring wells TH-19, TH-40, and TH-42, the two (2) limited use potable supply wells SUP-1 and SUP-2, two (2) surficial aquifer monitoring wells TH-30, and TH-57, and the piezoemeter P-18S are proposed to be removed from the current IAMP sampling. The upper Floridan monitoring wells TH-72, TH-76, and TH-77 will continue to be monitored on a monthly schedule, and the surficial aquifer monitoring wells, TH-28A, TH-58, TH-73, TH-74, and TH-75 will be monitored on a quarterly schedule. The initial quarterly sampling event for the eight (8) wells would be conducted in May 2013. June and July would only include the three upper Floridan wells. The reporting schedule will remain monthly for now, but the County requests consideration of a quarterly IAMP reporting schedule in the near future.

Enclosed for your review please find a site location map depicting the on-site wells sampled, the water quality data summary table for the February sampling event, a groundwater elevation data table, a groundwater contour and flow diagram, the historical data tables for each well sampled with data from December 2010 through January 2013, and the complete analytical data report from our contracted laboratory, Test America, Inc.

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Should you have any questions or require any additional information please feel free to call me at my direct line telephone number, (813) 663-3221.

Respectfully submitted,

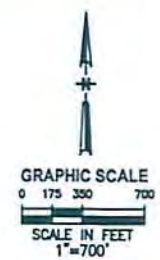
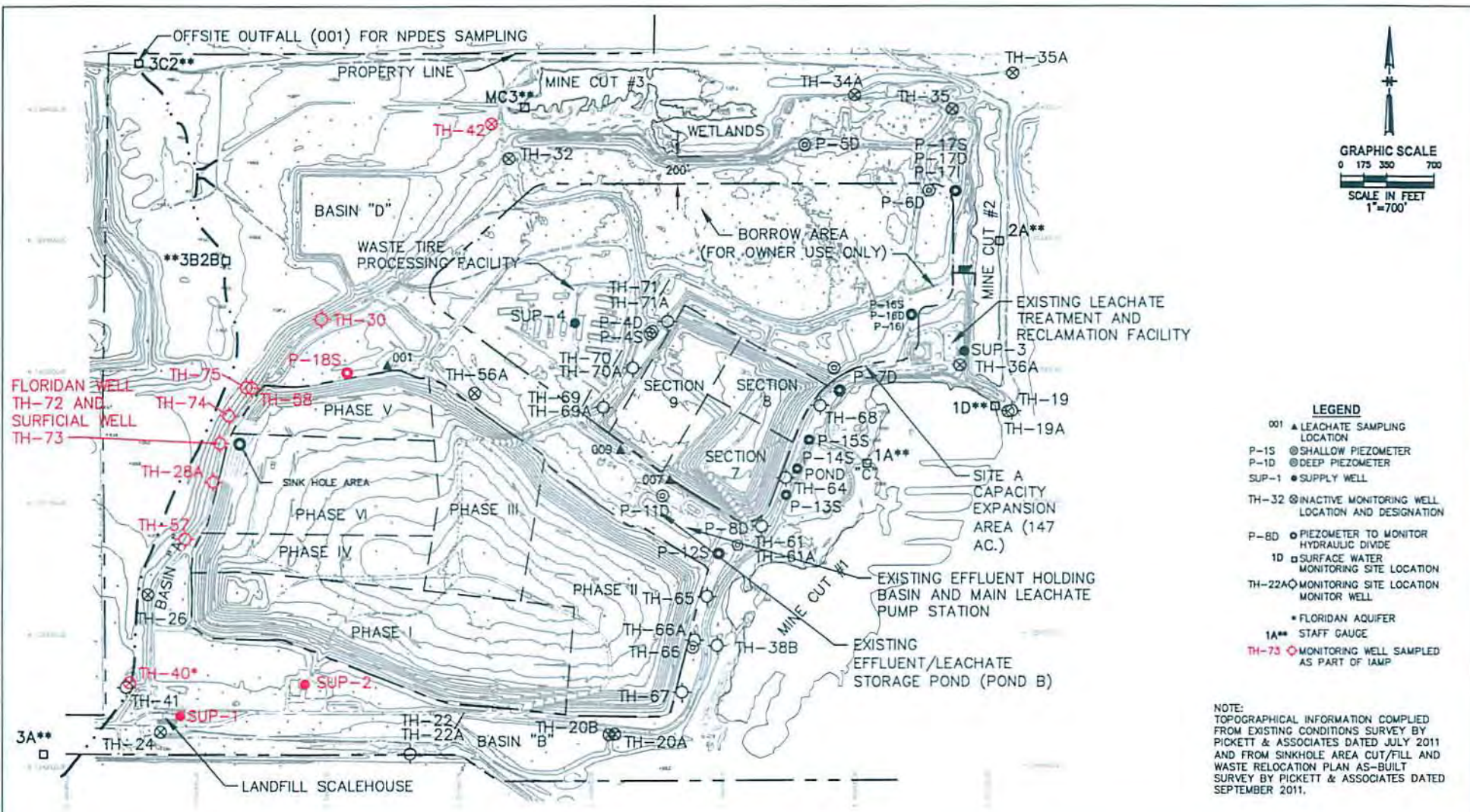
David S. Adams 4/17/2013

David S. Adams, P.G.
Environmental Manager
Public Utilities Department



xc: John Lyons, Director, Public Utilities Department
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Pamela Greene, Public Utilities Department
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Andy Schipfer, EPC
Ernest Ely, WMI
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, CDS

C:\pwworking\g\g\13\Wall Location Map - Revised 12-21-11.dwg, Plot, 12/21/2011 10:08:10 AM, brs\john



- LEGEND**
- 001 ▲ LEACHATE SAMPLING LOCATION
 - P-15 ○ SHALLOW PIEZOMETER
 - P-1D ○ DEEP PIEZOMETER
 - SUP-1 ● SUPPLY WELL
 - TH-32 ○ INACTIVE MONITORING WELL LOCATION AND DESIGNATION
 - P-8D ○ PIEZOMETER TO MONITOR HYDRAULIC DIVIDE
 - 1D □ SURFACE WATER MONITORING SITE LOCATION
 - TH-22A ○ MONITORING SITE LOCATION MONITOR WELL
 - FLORIDAN AQUIFER
 - 1A** STAFF GAUGE
 - TH-73 ○ MONITORING WELL SAMPLED AS PART OF IAMP

NOTE:
TOPOGRAPHICAL INFORMATION COMPILED FROM EXISTING CONDITIONS SURVEY BY PICKETT & ASSOCIATES DATED JULY 2011 AND FROM SINKHOLE AREA CUT/FILL AND WASTE RELOCATION PLAN AS-BUILT SURVEY BY PICKETT & ASSOCIATES DATED SEPTEMBER 2011.



SHEET TITLE
**MONITORING WELLS, PIEZOMETERS, AND SURFACE WATER MONITORING LOCATIONS
HILLSBOROUGH COUNTY, FLORIDA**

PROJECT NUMBER	REFERENCE SHEET
SCALE	DRAWING NAME
DATE	EXHIBIT NUMBER
DECEMBER 2011	1

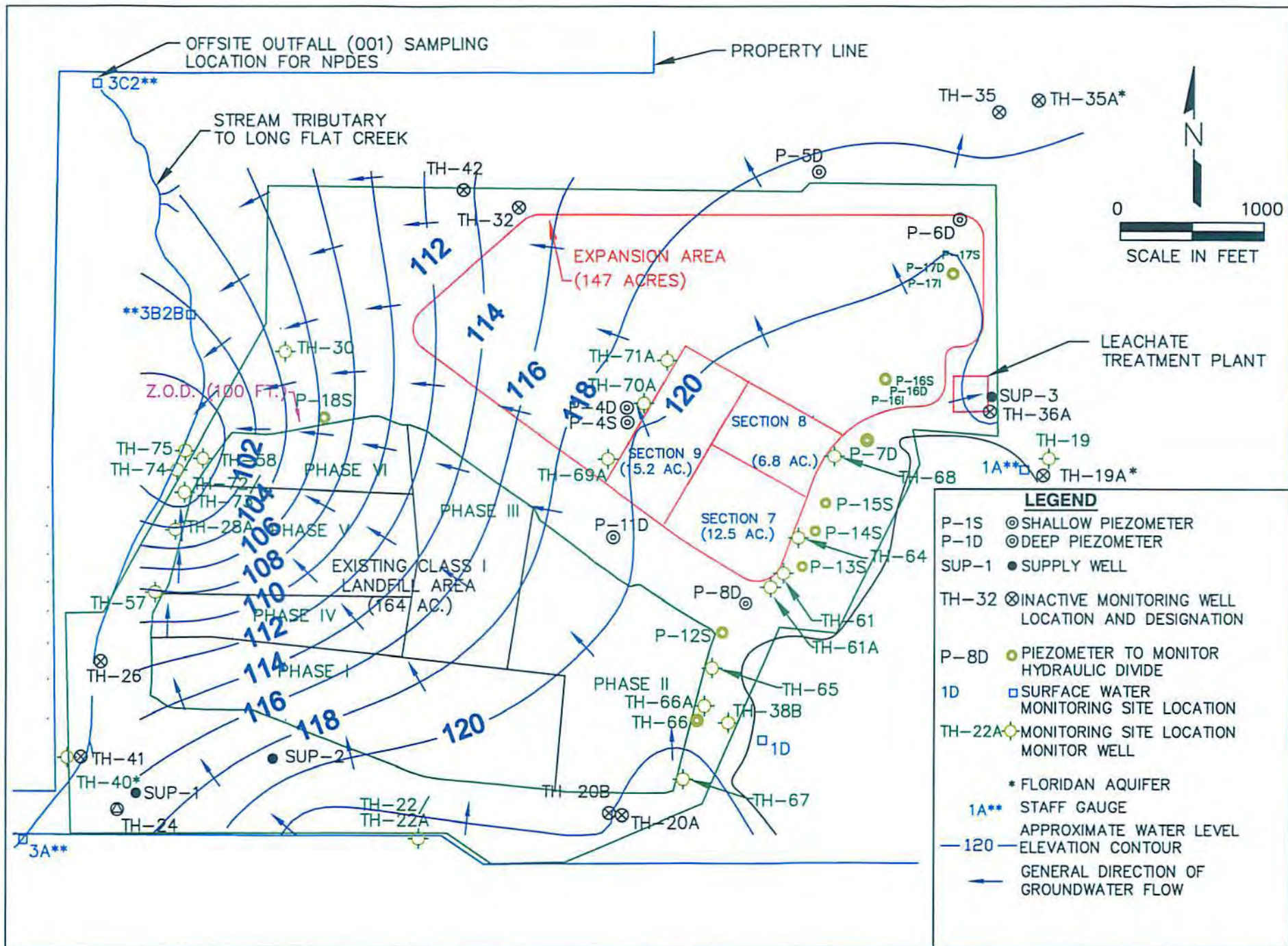
February 7-8, 2013

Note: Ref. Groundwater Guidance Concentrations, FDEP 2012 MCL=MAXIMUM CONTAMINANT LEVEL BDL=BELOW DETECTION LIMIT NTU=NEPHELOMETRIC TURBIDITY UNITS / = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. u = parameter was analyzed but not detected. *-DENOTES PRIMARY DRINKING WATER STANDARD **=DENOTES SECONDARY DRINKING WATER STANDARD ***=DENOTES FLORIDA GUIDANCE CONCENTRATION 5.03 EXCEEDS STANDARD ug/l=MICROGRAMS PER LITER mg/l=MILLIGRAMS PER LITER NS=NO STANDARD	
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GROUNDWATER AND SURFACE WATER ELEVATIONS FOR SOUTHEAST LANDFILL

February 6, 2013

Measuring Point I.D.	T.O.C. Elevations (NGVD)	02/06/2013 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	22.28	118.50	12:15 PM
P-4S	140.95	10.04	130.91	12:18 PM
P-5D	151.94	Dry	Dry	11:38 AM
P-6D-A	148.01	28.07	119.94	11:52 AM
P-7D	138.92	18.09	120.83	11:17 AM
P-8D	138.34	18.26	120.08	10:52 AM
P-11D	138.02	17.71	120.31	10:56 AM
P-12S	134.97	14.50	120.47	10:50 AM
P-13S	140.21	19.71	120.50	11:04 AM
P-14S	138.56	18.10	120.46	11:07 AM
P-15S	139.19	18.76	120.43	11:09 AM
P-16S	143.38	16.26	127.12	11:23 AM
P-16I	144.15	24.24	119.91	11:22 AM
P-16D	143.84	23.95	119.89	11:21 AM
P-17S	137.35	16.36	120.99	11:44 AM
P-17I	137.32	17.40	119.92	11:45 AM
P-17D	137.22	17.39	119.83	11:46 AM
P-18S	129.86	18.60	111.26	10:18 AM
P-19	133.36	14.49	118.87	11:49 AM
P-20	132.38	13.30	119.08	11:57 AM
P-21	122.79	4.34	118.45	12:05 PM
P-22	128.35	9.60	118.75	12:07 PM
P-23	143.13	23.91	119.22	12:01 PM
TH-19*	130.27	105.15	25.12	11:25 AM
TH-20A	131.86	9.88	121.98	10:36 AM
TH-20B	132.57	10.85	121.72	10:37 AM
TH-22	128.82	5.58	123.24	9:34 AM
TH-22A	129.27	6.19	123.08	9:33 AM
TH-24A	128.23	5.78	122.45	9:38 AM
TH-28A	131.10	28.67	102.43	10:30 AM
TH-30	128.88	24.08	104.80	10:21 AM
TH-32	129.90	15.09	114.81	10:13 AM
TH-35	145.98	28.71	117.27	11:34 AM
TH-36A	152.70	32.90	119.80	11:28 AM
TH-38A	130.68	10.32	120.36	10:43 AM
TH-38B	131.81	11.11	120.70	10:42 AM
TH-40*	124.99	101.05	23.94	9:17 AM
TH-41*	125.00	105.60	19.40	9:19 AM
TH-42*	116.74	78.90	37.84	10:11 AM
TH-57	128.36	19.36	109.00	9:42 AM
TH-58	127.88	28.38	99.50	10:24 AM
TH-61	138.73	17.74	120.99	11:00 AM
TH-61A	139.45	18.41	121.04	10:59 AM
TH-64	139.64	18.26	121.38	11:05 AM
TH-65	135.40	14.69	120.71	10:48 AM
TH-66	130.58	9.45	121.13	10:45 AM
TH-66A	130.66	9.91	120.75	10:46 AM
TH-67	129.51	7.01	122.50	10:39 AM
TH-68	140.01	19.35	120.66	11:15 AM
TH-69A	144.97	25.66	119.41	12:20 PM
TH-70A	146.63	26.79	119.84	12:17 PM
TH-71A	146.95	27.34	119.61	12:11 PM
TH-72	130.96	105.58	25.38	10:26 AM
TH-73	131.07	32.11	98.96	10:27 AM
TH-74	109.08	10.16	98.92	9:46 AM
TH-75	106.92	8.02	98.90	9:48 AM
SW-3A	3.0'=125.53'	0.18	122.71	9:14 AM
SW-3B2B	3.0'=97.97'	Dry	Dry	9:55 AM
SW-3C2	6.0'=92.33'	1.10	87.43	10:00 AM
Mine Cut #1	4.0'=122.14'	2.50	120.64	11:12 AM
Mine Cut #2	6.0'=123.47'	2.58	120.05	11:31 AM
Mine Cut #3	4.0'=112.27'	2.00	110.27	10:08 AM
Mine Cut #4	5.0'=97.54'	1.48	94.02	10:05 AM
NGVD = National Geodetic Vertical Datum				
T.O.C. = Top of Casing				
B.T.O.C. = Below Top of Casing				
* = Floridan Well				
ND = No Data				
W.L. = Water Level				



Southeast County Landfill
 Groundwater Elevation Contour Diagram – February 6, 2013

**Historical Groundwater Data Tables
December 2010 – January 2013**

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-19

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/21/2010	117.30	12.97	392	1.34	7.37	23.2	0.2	250	7.8	0.25	0.0013 u	0.033 u	14
12/28/2010	118.33	11.94	319	0.78	7.4	23.23	0.2	230	7.9	0.23	ND	ND	16
01/04/2011	117.83	12.44	337	0.94	7.33	23.27	0.2	220	8.3	0.27	ND	ND	14
01/13/2011	114.88	15.39	441	0.42	7.41	23.13	0.2	220	8.6	0.24	0.004 u	0.051 i	14
01/20/2011	113.69	16.58	417	0.5	7.36	23.39	0.6	230	8.5	0.28	0.004 u	0.05 u	14
01/27/2011	110.45	19.82	399	0.49	7.51	23.37	0.2	250	8.2	0.23	0.004 u	0.05 u	14
02/03/2011	107.11	23.16	409	0.83	7.49	23.42	0.2	220	8.3	0.22	0.004 u	0.05 u	12
02/10/2011	104.74	25.53	381	0.8	7.56	23.33	0.7	240	8.9	0.29	0.004 u	0.05 u	14
02/14/2011	102.93	27.34	325	0.92	7.58	23.2	0.5	240	8.4	0.25	0.0013 u	0.033 i	15
02/24/2011	104.04	26.23	432	0.82	7.45	23.37	0.6	250	8.3	0.21	0.004 u	0.05 u	14
03/03/2011	105.78	24.49	419	0.35	7.48	23.4	0.1	240	8.3	0.2	0.004 u	0.05 u	14
03/10/2011	107.24	23.03	400	0.33	7.51	23.34	0.2	230	8.1	0.23	0.004 u	0.05 u	13
03/17/2011	106.66	23.61	300	0.29	7.39	23.38	0.3	240	7.8	0.24	0.004 u	0.05 u	14
03/24/2011	107.74	22.53	353	0.35	7.42	23.4	0.2	240	8.4	0.28	0.004 u	0.05 u	14
04/01/2011	109.40	20.87	377	1.3	7.48	23.09	0.2	240	8.8	0.19	0.004 u	0.05 u	14
04/08/2011	106.35	23.92	419	0.39	7.32	23.46	0.3	220	8.2	0.25	0.004 u	0.05 u	14
05/05/2011	110.09	20.18	408	0.5	7.58	23.56	0.1	230	8.2	0.27	0.004 u	0.05 u	14
06/08/2011	113.57	16.70	432	0.8	7.39	23.48	0.56	250	8.4	0.35	0.004 u	0.05 u	14
07/07/2011	108.42	21.85	430	0.37	7.37	23.53	0.33	260	8.1	0.31	0.004 u	0.05 u	14
08/04/2011	99.25	31.02	391	0.3	7.22	23.55	0	250	7.5	0.32	0.004 u	0.05 u	14
09/08/2011	93.66	36.61	397	0.8	7.35	23.47	0.6	220	7.9	0.35	0.004 u	0.05 u	15
10/04/2011	94.58	35.69	335	0.44	7.33	23.46	0.7	210	7.3	0.24	0.004 u	0.05 u	14
11/03/2011	98.51	31.76	393	0.59	7.28	23.35	1.38	220	8	0.28	0.004 u	0.05 u	14
12/08/2011	101.64	28.63	378	0.26	7.3	23.43	0.37	220	7.2	0.26	0.004 u	0.05 u	14
01/05/2012	107.26	23.01	369	0.45	7.29	23.25	0.24	200	8.3	0.25	0.004 u	0.05 u	15
02/10/2012	109.48	20.79	378	0.26	7.5	23.34	0.44	240	8.6	0.23	0.004 u	0.05 u	14
03/07/2012	116.31	13.96	413	0.84	7.25	23.35	0.4	210	8.1	0.19	0.004 u	0.05 u	14
04/05/2012	120.81	9.46	423	0.58	7	23.44	0	190	8.1	0.26	0.004 u	0.05 u	14
05/03/2012	123.35	6.92	402	0.1	6.85	23.46	0	220	8.1	0.48	0.004 u	0.05 u	14
06/07/2012	119.00	11.27	379	2.13	7.21	23.44	0.6	230	8	0.38	0.004 u	0.05 u	14
07/05/2012	104.99	25.28	304	0.63	6.69	23.49	0.42	210	7.9	0.54	0.004 u	0.05 u	14
08/03/2012	97.45	32.82	260	0.26	6.91	23.49	0.58	240	7.9	0.34	0.004 u	0.05 u	14
09/06/2012	90.81	38.97	406	0.23	6.92	23.49	1.21	230	8.4	0.35	0.004 u	0.05 u	14
10/04/2012	89.85	40.42	363	0.33	7.09	23.48	0.39	240	8.1	0.39 j3	0.004 u	0.05 u	13
11/07/2012	98.98	31.29	424	0.35	7.23	23.49	0.63	210	8.1	0.33	0.004 u	0.05 u	14
12/05/2012	101.14	29.13	430	8	7.14	23.47	0.27	190	8.4	0.29 j3	0.004 u	0.05 u	14
01/02/2013	99.93	30.34	435	0.53	7.12	23.43	0.47	220	7.5	0.31	0.004 u	0.05 u	14

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-28A

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/21/2010	28.90	102.20	209	1.71	5.22	25.3	25.9	110	43	1.4	0.0023	2.5	17
12/28/2010	28.75	102.35	171	1.63	5.11	25.81	5	120	42	1.2	ND	ND	17
01/04/2011	28.88	102.22	175	0.91	5.12	25.58	1.7	92	42	1.4	ND	ND	17
01/13/2011	28.67	102.43	235	0.7	5.25	25.59	2.1	110	44	1	0.0059	2.5	17
01/20/2011	28.41	102.69	239	0.43	5.15	26.31	1.5	110	46	1.1	0.004 u	2.4	17
01/27/2011	28.44	102.66	236	0.99	5.09	25.37	1.6	120	45	0.94	0.004 u	2.4	18
02/03/2011	28.32	102.78	233	0.96	5.07	25.9	2.5	110	46	0.91	0.004 u	2.2	16
02/10/2011	28.31	102.79	209	0.61	5.06	25.85	3.1	110	45	1.3	0.004 u	2.4	18
02/14/2011	28.23	102.87	183	0.84	5.14	25.2	0.9	120	46	1.2	0.0022 i	2.5	18
02/24/2011	28.39	102.71	199	0.6	5.32	26.1	4.5	130	45	1.2	0.004 u	2.5	17
03/03/2011	28.45	102.65	229	0.51	5.18	26	13.2	140	43	1.1	0.004 u	2.7	18
03/10/2011	28.51	102.59	210	0.8	5.24	26.54	4.8	110	46	0.88	0.004 u	2.8	18
03/17/2011	28.36	102.74	161	0.64	5.19	26.06	1.9	150	47	1.3	0.004 u	2.7	18
03/24/2011	28.50	102.60	151	0.42	5.26	26.26	1.8	140	45	1.2	0.004 u	2.8	17
04/01/2011	28.10	103.00	231	0.79	5.31	25.75	4.8	120	45	0.72	0.004 u	3.1	18
04/08/2011	27.69	103.41	240	0.63	5.3	26.19	4.1	120	49	1.1	0.004 u	3.1	19
05/05/2011	28.78	102.32	227	0.88	5.15	25.77	7.9	94	41	1.2	0.004 u	2.9	16
06/08/2011	29.31	101.79	226	1.89	5.34	26.34	9.61	120	41	1.3	0.004 u	3.2	16
07/07/2011	28.26	102.84	207	0.58	5.16	26.22	3.4	110	45	1.1	0.004 u	3	16
08/04/2011	27.95	103.15	206	0.97	5.2	27.28	11.5	130	43	0.67	0.004 u	3.1	16
09/08/2011	27.66	103.44	202	0.49	5.24	26.63	4	140	46	1.5	0.004 u	3.4	19
10/04/2011	28.11	102.99	195	1.26	5.17	26.66	3.4	130	46	1	0.004 u	3	18
11/03/2011	28.20	102.90	225	0.8	5.3	26.37	7.4	110	47	1.4	0.004 u	2.9	18
12/08/2011	28.70	102.40	234	1.12	5.3	25.1	6.13	120	45	1.2	0.004 u	3.2	18
01/05/2012	28.94	102.16	231	0.71	5.27	25.35	7.15	140	50	1.2	0.004 u	3.4	18
02/10/2012	28.92	102.18	242	1.58	5.26	25.12	5.08	160	63	1.6	0.004 u	3.6	22
03/07/2012	29.15	101.95	299	0.79	5.24	26.34	5.1	190	59	1.5	0.004 u	3.5	23
04/05/2012	29.35	101.75	297	1.83	5.3	26.27	14.4	130	71	2.2	0.004 u	3.7	24
05/03/2012	29.43	101.67	305	1.32	5.13	26.64	9.15	110	61	3	0.004 u	3.7	25
06/07/2012	29.00	102.10	274	1.18	5.31	26.73	4.36	170	64	3.1	0.004 u	3	25
07/05/2012	28.05	103.05	344	0.49	5.25	26.77	3.53	150	75	3	0.004 u	4	29
08/03/2012	28.48	102.62	219	0.81	5.31	27.56	3.73	150	50	2.9	0.004 u	3.2	21
09/06/2012	27.89	103.40	269	0.24	5.27	27.26	2.55	150	49	3	0.004 u	3.6	20
10/04/2012	28.00	103.10	234	0.31	5.08	27.36	10.7	130	43	2.4	0.004 u	3.4	18
11/07/2012	28.31	102.79	253	0.51	5.18	26.6	2.33	130	46	1.6	0.004 u	3.3	19
12/05/2012	28.60	102.50	251	0.31	5.08	27.04	2.45	130	54	1.6	0.004 u	3.3	18
01/02/2013	28.43	102.67	294	0.4	5.08	26.68	1.8	190	59	2.4 j3	0.004 u	3.8	22

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012

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5.22 EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-30

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
02/03/2011	24.05	104.83	244	0.27	4.45	23.65	3.6	110	57	0.94	0.004 u	0.2	19
02/10/2011	24.11	104.77	219	0.21	4.36	23.7	4	120	61	1.5	0.004 u	0.2	20
02/14/2011	24.05	104.83	192	0.3	4.45	23.7	1.8	150	57	1	0.004 u	0.2	20
02/24/2011	24.10	104.78	208	0.18	4.81	23.82	3.1	160	57	1.3	0.004 u	0.19 i	20
03/03/2011	24.15	104.73	239	0.3	4.68	24.48	2.4	150	60	0.89	0.004 u	0.25	21
03/10/2011	24.13	104.75	231	0.16	4.71	23.58	3.9	130	57	0.96	0.004 u	0.19 i	20
03/17/2011	24.18	104.70	175	0.12	4.56	23.68	6.9	130	50	1.1	0.004 u	0.24	21
03/24/2011	24.15	104.73	208	0.17	4.58	23.71	2.1	120	59	0.91	0.004 u	0.21	20
04/01/2011	24.11	104.77	252	0.14	4.68	23.56	2.8	140	58	0.8	0.004 u	0.21	20
04/08/2011	23.77	105.11	242	0.19	4.69	23.62	2.3	120	59	1.3	0.004 u	0.21	21
05/05/2011	24.20	104.68	251	0.13	4.61	23.4	3.6	130	64	1.4	0.004 u	0.21	21
06/08/2011	24.32	104.56	261	0.27	4.4	23.45	3.62	150	64	1.9	0.004 u	0.23	20
07/07/2011	24.06	104.82	266	0.3	4.47	23.42	4.25	150	67	1.6	0.004 u	0.2	21
08/04/2011	23.84	105.04	244	0.17	4.49	23.43	3.3	160	63v	1.5	0.004 u	0.23	21
09/08/2011	23.80	105.08	251	0.21	4.44	23.41	4.7	130	66v	1.7	0.004 u	0.24	23
10/04/2011	23.97	104.91	231	0.17	4.63	23.46	3.4	160	70	0.89	0.004 u	0.25	22
11/03/2011	23.94	104.94	266	0.16	4.6	23.72	1.94	170	61	1.2	0.004 u	0.05 u	22
12/08/2011	23.95	104.93	283	0.16	4.66	23.62	1.81	160	71	1.2	0.004 u	0.24	22
01/05/2012	24.10	104.78	277	0.14	4.59	23.67	1.98	150	83	1	0.004 u	0.27	25
02/10/2012	24.08	104.80	302	0.13	4.48	23.74	1.48	230	97	1.1	0.004 u	0.29	24
03/07/2012	24.26	104.62	375	0.21	4.58	23.79	1	170	99	1	0.004 u	0.31	26
04/05/2012	24.28	104.60	407	0.15	4.39	23.67	0	150	110	1.7	0.004 u	0.32	27
05/03/2012	24.32	104.56	431	0.19	4.01	23.6	1.93	180	110	2.3	0.004 u	0.36	29
06/07/2012	24.24	104.64	430	0.17	4.25	23.52	1.09	240	130	2.3	0.004 u	0.37	29
07/05/2012	23.69	105.19	462	0.15	3.94	23.5	1.83	280	130 j3	2.4 j3	0.004 u	0.43	31
08/03/2012	24.02	104.86	297	0.13	4.07	23.51	3.01	280	130	2.4	0.004 u	0.38	30
09/06/2012	23.55	106.43	433	0.11	4.24	23.61	1.51	220	130	2.6	0.004 u	0.37	28
10/04/2012	23.71	105.17	410	0.09	4.32	23.6	2.67	220	120	2.7	0.004 u	0.42	27
11/07/2012	23.89	104.99	451	0.19	4.47	23.77	1.95	230	120	1.9	0.004 u	0.38	28
12/05/2012	23.98	104.90	483	0.27	4.41	23.81	1.86	240	140	2	0.004 u	0.39	28
01/02/2013	23.99	104.89	532	0.2	4.37	23.78	1.9	350	140	2.3	0.004 u	0.44	32

New survey data beginning with 10/4/2012.

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j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

4.45

EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-40

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/21/2010	115.10	9.94	348	1.06	7.61	23.3	0.3	210	8.3	0.31	0.0013 u	0.041	20
12/28/2010	116.90	8.09	304	1.37	7.55	22.7	1.4	220	8	0.42	ND	ND	17
01/04/2011	115.10	9.91	323	2.33	7.2	23.23	1	220	8.7	0.27	ND	ND	16
01/13/2011	112.16	12.83	400	0.74	7.54	23.11	0.5	210	8.5	0.27	0.0048	0.065	16
01/20/2011	111.15	13.84	420	0.58	7.52	23.28	0.8	220	8.6	0.31	0.004 u	0.11	16
01/27/2011	107.91	17.08	359	1.3	7.73	23.38	0.2	220	8.2	0.29	0.004 u	0.063	16
02/03/2011	104.37	20.62	398	0.81	7.74	23.35	0.2	210	8.3	0.32	0.004 u	0.05 u	15
02/10/2011	102.03	22.96	346	0.48	7.68	23.38	0.6	210	8.7	0.31	0.004 u	0.05 u	16
02/14/2011	100.18	24.81	325	0.92	7.58	23.2	0.5	230	8.2	0.38	0.0013 u	0.073 i	18
02/24/2011	101.87	23.12	345	0.46	7.65	23.4	0.3	230	8.2	0.26	0.004 u	0.05 u	16
03/03/2011	103.59	21.40	378	0.34	7.71	23.4	0.1	230	8.4	0.27	0.004 u	0.05 u	16
03/10/2011	105.12	19.87	351	0.43	7.66	23.3	0.1	210	8	0.33	0.004 u	0.05 u	16
03/17/2011	104.60	20.39	274	0.36	7.59	23.31	0.1	220	7.5	0.3	0.004 u	0.05 u	16
03/24/2011	108.11	18.88	309	0.37	7.65	23.44	0.1	210	8.1	0.3	0.004 u	0.05 u	16
04/01/2011	107.77	17.22	355	0.52	7.6	23.33	0.3	230	7.8	0.26	0.004 u	0.05 u	16
04/08/2011	104.35	20.64	387	0.39	7.51	23.46	0.4	210	7.9	0.29	0.004 u	0.05 u	16
05/05/2011	108.11	16.88	392	0.63	7.42	23.44	0.2	220	7.6	0.34	0.004 u	0.05 u	16
06/08/2011	111.06	13.93	417	0.52	7.59	23.5	0.18	240	8.4	0.41	0.004 u	0.05 u	15
07/07/2011	105.55	19.44	430	0.51	7.46	23.53	0.35	230	7.8	0.39	0.004 u	0.098 i	16
08/04/2011	95.76	29.23	361	0.34	7.52	23.64	0	220	7.3	0.4	0.004 u	0.05 u	16
09/08/2011	90.15	34.84	370	1.04	7.59	23.6	0.7	190	7.4	0.45	0.004 u	0.05 u	17
10/04/2011	91.54	33.45	291	0.51	7.58	23.51	0.8	190	6.5	0.33	0.004 u	0.05 u	16
11/03/2011	95.45	29.54	255	0.41	7.67	23.42	0.31	210	7.7	0.32	0.004 u	0.05 u	16
12/08/2011	98.90	26.09	367	0.54	7.58	23.03	0.51	170	7.2	0.33	0.004 u	0.05 u	16
01/05/2012	107.41	17.58	354	0.95	7.48	23.15	0.39	200	8.3	0.3	0.004 u	0.05 u	16
02/10/2012	106.49	18.50	308	0.45	7.66	23.29	0.66	210	8.9	0.3	0.004 u	0.05 u	16
03/07/2012	114.22	10.77	381	1.09	7.56	23.4	0.5	160	8.5	0.23	0.004 u	0.05 u	17
04/05/2012	118.71	6.28	351	0.66	7.37	23.43	0.86	170	8.8	0.31	0.004 u	0.05 u	17
05/03/2012	120.35	4.64	388	0.47	7.29	23.44	0	170	8.5	0.63	0.004 u	0.05 u	19
06/07/2012	114.61	10.38	382	0.75	7.13	23.42	0.48	200	8.9	0.43	0.004 u	0.05 u	18
07/05/2012	100.03	24.96	389	0.6	7.39	23.78	0.18	200	8.5	0.68	0.004 u	0.05 u	18
08/03/2012	92.72	32.27	276	0.29	7.3	23.56	0.47	210	8.3	0.6	0.004 u	0.05 u	17
09/06/2012	85.90	38.47	337	0.29	7.33	23.59	0.68	210	8.5 j	0.45	0.004 u	0.05 u	16
10/04/2012	84.99	40.00	328	0.25	7.29	23.5	0.19	200	8.2	0.46	0.004 u	0.05 u	16
11/07/2012	94.30	30.69	356	0.49	7.44	23.46	0.65	200	7.9	0.44	0.004 u	0.05 u	16
12/05/2012	96.88	28.11	361	0.32	7.34	23.58	0.33	200	8.1	0.38	0.004 u	0.05 u	16
01/02/2013	95.40	29.59	400	0.99	7.14	23.26	0.35	180	7.7	0.38	0.004 u	0.05 u	17

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

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**Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-42**

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/21/2010	89.31	27.43	496	0.77	7.29	23.7	796	320	17	0.36	0.009	25	18
12/28/2010	89.22	27.52	412	0.42	7.21	23.47	156.1	310	17	0.24	ND	ND	15
01/04/2011	90.92	25.82	427	0.81	7.24	23.52	234.4	300	18	0.16	ND	ND	15
01/13/2011	89.73	27.01	556	0.32	7.31	23.22	175.1	300	18	0.2	0.004 u	3.5	16
01/20/2011	88.91	27.83	562	0.22	7.02	23.69	160.3	320	18	0.27	0.004 u	3.8	16
01/27/2011	86.86	29.88	498	0.59	7.43	23.05	202.9	310	18	0.22	0.004 u	3.8	15
02/03/2011	84.45	32.29	536	0.77	7.07	23.51	329.3	290	18	0.24	0.004 u	6.6	15
02/10/2011	82.50	34.24	476	0.84	7.26	23.62	95.6	300	18	0.27	0.004 u	2.5	15
02/14/2011	80.86	35.88	420	0.49	7.28	23.7	55	300	19	0.26	0.004 u	1.6	16
02/24/2011	81.01	35.73	541	2.26	7.29	23.66	41.1	320	18	0.19	0.004 u	1.2	15
03/03/2011	82.17	34.57	527	0.25	7.33	23.7	40.8	310	17	0.17	0.004 u	1.2	16
03/10/2011	83.41	33.33	503	0.37	7.41	23.42	57.5	310	17	0.26	0.004 u	1.2	15
03/17/2011	83.86	32.88	377	0.14	7.26	23.68	25.7	300	16	0.26	0.004 u	1.1	16
03/24/2011	84.20	32.54	443	0.29	7.32	23.77	22.1	300	17	0.27	0.004 u	0.63	16
04/01/2011	86.39	30.35	471	0.7	7.35	23.39	19.5	320	19	0.16	0.004 u	0.94	16
04/08/2011	84.84	31.90	526	0.34	7.2	23.72	16.6	290	17	0.22	0.004 u	0.68	15
05/05/2011	85.80	30.94	535	0.16	7.18	23.59	12.2	290	18	0.29	0.004 u	0.35	15
06/08/2011	89.20	27.54	544	0.32	7.33	23.98	8.87	310	20	0.33	0.004 u	0.22	15
07/07/2011	86.45	30.29	541	0.27	7.26	23.85	18.1	310	18	0.33	0.004 u	0.088 i	16
08/04/2011	78.31	38.43	493	0.13	7.23	24.02	18.3	300	17	0.094	0.004 u	0.52	16
09/08/2011	72.14	44.60	499	0.22	7.36	23.97	18.1	280	17	0.28	0.004 u	0.37	17
10/04/2011	71.42	45.32	421	0.25	7.26	23.93	11.5	230	15	0.25	0.004 u	0.37	16
11/03/2011	74.50	42.24	495	0.23	7.21	23.64	20.6	260	18	0.25	0.004 u	0.36	16
12/08/2011	77.64	39.10	475	0.21	7.18	23.72	11.9	280	16	0.21	0.004 u	0.47	15
01/05/2012	83.90	32.84	466	0.22	7.12	23.67	12	270	18	0.21	0.004 u	0.4	17
02/10/2012	84.26	32.48	474	0.22	7.42	23.62	11.4	290	18	0.23	0.004 u	0.56	16
03/07/2012	88.95	27.79	521	0.17	7.15	23.83	12.4	260	18	0.13	0.004 u	0.4	16
04/05/2012	93.21	23.53	536	0.19	7	23.78	3.98	250	17	0.25	0.004 u	0.16 i	16
05/03/2012	95.72	21.02	511	2.82	7.07	23.8	4.76	260	18	0.41	0.004 u	0.12 i	17
06/07/2012	93.92	22.82	476	1.54	7.18	23.93	8.39	300	18	0.3	0.004 u	0.24	16
07/05/2012	82.84	33.90	454	0.86	6.5	24.06	7.16	280	17	0.53	0.004 u	0.22	16
08/03/2012	75.30	41.44	306	0.57	6.78	24.4	17.2	290	17	0.47	0.004 u	0.53	16
09/06/2012	69.12	47.08	519	0.14	6.98	23.87	16.9	280	18	0.32	0.004 u	0.64	16
10/04/2012	67.42	49.32	366	0.15	7.03	23.93	17.8	270	17	0.35	0.004 u	0.64 j3	15
11/07/2012	73.49	43.25	538	0.27	7.07	23.66	33.1	280	17	0.34	0.004 u	0.6	16
12/05/2012	76.16	40.58	543	0.31	7.04	23.92	18.1	250	18	0.27	0.004 u	0.5	16
01/02/2013	76.85	39.89	549	0.44	7.03	23.72	12.9	280	17	0.31	0.004 u	0.4	16

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

j3 = estimated value, value may not be accurate. Spike recovery or RPD outside of criteria.

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EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-57

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/21/2010	20.18	108.20	144	1.6	5.05	26.1	0.6	76	35	0.79	0.0013 u	0.32	13
12/28/2010	20.26	108.10	150	1.45	5.21	26.2	0.5	110	44	0.93	ND	ND	13
01/04/2011	20.26	108.10	143	0.33	5.08	26.4	0.4	100	39	0.82	ND	ND	12
01/13/2011	20.19	108.17	207	0.37	5.24	26.41	0.5	80	40	0.85	0.004 u	0.51	12
01/20/2011	20.03	108.33	200	0.39	5.23	26.37	0.4	98	42	0.64	0.004 u	0.52	12
01/27/2011	19.99	108.40	172	0.23	4.99	26.05	0.5	32	36	0.88	0.004 u	0.41	11
02/03/2011	19.99	108.37	189	0.62	5.08	26.13	0.4	88	40	0.87	0.004 u	0.48	11
02/10/2011	19.47	108.89	160	0.42	5.02	26.02	2.1	82	40	1	0.004 u	0.43	11
02/14/2011	20.00	108.36	152	0.5	5.24	25.9	0.2	98	37	1	0.0013 u	0.51	13
02/24/2011	20.10	108.26	164	0.16	5.34	25.97	0.2	110	34	0.92	0.004 u	0.35	11
03/03/2011	19.65	108.71	198	0.24	5.16	25.8	0.6	110	39	0.88	0.004 u	0.48	13
03/10/2011	19.70	108.66	167	0.37	5.24	26.7	0.5	98	38	0.83	0.004 u	0.45	11
03/17/2011	20.15	108.21	133	0.31	5.16	25.76	0.1	130	42	0.81	0.004 u	0.49	12
03/24/2011	19.72	108.64	128	0.21	5.18	25.69	5.1	120	39	0.87	0.004 u	0.48	12
04/01/2011	19.99	108.37	176	0.22	5.2	25.6	0.9	92	35	0.7	0.004 u	0.46	11
04/08/2011	19.40	108.96	187	0.19	5.18	25.56	0.4	80	41	0.87	0.004 u	0.5	12
05/05/2011	20.09	108.27	182	0.51	5.09	25.3	0.2	88	34	1.1	0.004 u	0.4	11
06/08/2011	20.55	107.81	185	0.4	5.17	25.61	3.17	110	39	1.2	0.004 u	0.43	11
07/07/2011	19.66	108.70	157	0.22	5.14	25.81	2.5	200	9.7	0.17	0.004 u	0.05 u	8.6
08/04/2011	19.20	109.57	211	0.15	5.02	26.26	0.3	150	47	0.76	0.004 u	0.63	13
09/08/2011	18.60	109.76	183	0.27	5.08	26.55	2.5	110	42	1.1	0.004 u	0.51	14
10/04/2011	18.96	109.40	144	0.21	5.08	26.76	2.1	110	38	0.8	0.004 u	0.5	14
11/03/2011	19.20	109.16	218	0.25	5.26	26.72	0.66	130	42	1.2	0.004 u	0.54	14
12/08/2011	19.59	108.77	187	0.26	5.32	26.55	0.41	96	37	1	0.004 u	0.39	13
01/05/2012	19.85	108.51	154	0.65	5.24	26.31	0.7	110	36	0.85	0.004 u	0.35	13
02/10/2012	19.94	108.42	156	0.2	5.31	26.19	0.63	120	26	0.84	0.004 u	0.32	12
03/07/2012	20.19	108.17	148	0.53	5.11	25.8	0.3	84	30	0.63	0.004 u	0.3	11
04/05/2012	20.28	108.08	139	0.78	5.16	25.79	0.46	80	29	0.73	0.004 u	0.29	10
05/03/2012	20.42	107.94	152	0.28	4.88	25.87	2.24	68	26	1.2	0.004 u	0.31	11
06/07/2012	20.02	108.34	127	0.29	4.84	26.04	0.82	70	25	0.92	0.004 u	0.29	10
07/05/2012	18.39	109.97	274	0.27	5.11	26.28	1.12	170	54	1.5	0.004 u	1.2	17
08/03/2012	18.75	109.61	160	0.22	4.92	26.44	1.7	120	36	1.5	0.004 u	0.56	13
09/06/2012	18.14	109.40	252	0.2	4.9	26.79	0.97	160	40	1.1	0.004 u	0.45	14
10/04/2012	18.45	109.91	211	0.17	4.93	26.91	2.43	110	37	1.5	0.004 u	0.63	13
11/07/2012	18.72	109.64	220	0.17	5.08	27.01	0.82	120	36	1.1	0.004 u	0.54	14
12/05/2012	18.99	109.37	188	0.15	5.08	26.94	0.49	100	34	1	0.004 u	0.42	13
01/02/2013	19.08	109.28	185	0.15	5.01	26.69	0.71	140	29	1	0.004 u	0.42	13

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

5.05

EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-58

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/21/2010	28.34	99.54	970	1.2	5.76	26	0.9	490	190	0.66	0.027	4.7	38
12/28/2010	28.34	99.54	570	0.42	5.68	26	0.9	420	130	0.75	ND	ND	30
01/04/2011	28.36	99.52	619	0.44	5.71	25.81	0.6	440	140	0.64	ND	ND	29
01/13/2011	28.31	99.57	736	0.46	5.78	25.58	0.2	390	130	0.61	0.031	5	26
01/20/2011	28.22	99.66	751	0.34	5.74	25.95	0.2	380	120	0.74	0.024	4.9	23
01/27/2011	28.11	99.77	693	0.64	5.76	25.87	0.4	380	97	0.68	0.026	5	22
02/03/2011	28.05	99.83	740	0.86	5.73	25.71	2.2	380	110	0.61	0.027	4.4	23
02/10/2011	28.02	99.86	578	0.56	5.74	25.58	1.3	350	76	0.92	0.026	4.9	20
02/14/2011	28.05	99.83	521	0.58	5.72	25.7	0.6	340	85	0.91	0.027	4.7	20
02/24/2011	28.09	99.79	692	0.59	5.79	25.76	0.5	380	92	0.95	0.025	4	21
03/03/2011	28.21	99.67	591	0.42	5.68	25.6	0.6	300	76	0.61	0.024	4.1	19
03/10/2011	28.24	99.64	524	0.47	5.76	25.38	0.6	280	63	0.68	0.026	4	17
03/17/2011	28.20	99.68	337	0.33	5.69	25.47	0.4	280	65	0.3	0.026	4.1	17
03/24/2011	28.28	99.60	440	0.42	5.72	25.53	0.2	270	57	0.93	0.024	4.3	16
04/01/2011	28.10	99.78	504	0.37	5.8	25.23	0.8	270	56	0.73	0.024	4.2	17
04/08/2011	27.59	100.29	459	0.28	5.73	25.36	0.9	250	57	0.82	0.026	4.6	16
05/05/2011	28.20	99.68	1005	0.36	5.65	25.06	0.9	580	270	2.8	0.027	8.7	45
06/08/2011	28.72	99.16	1210	1.28	5.76	26.69	10.3	800	290	1.2	0.02	7.7	63
07/07/2011	27.99	99.89	998	0.75	5.7	25.62	4.49	560	210	0.94	0.025	5.8	47
08/04/2011	27.61	100.27	2167	0.39	5.6	26.1	2.1	1700	660	1.6	0.028	16	150
09/08/2011	27.42	100.46	1239	0.9	5.7	26.18	3.6	1200	570	0.75	0.026	8.1	120
10/04/2011	27.77	100.11	1416	0.67	5.72	26.01	5.2	1100	400	0.45	0.028	4.5	96
11/03/2011	27.91	99.97	1574	0.87	5.84	26.72	8.36	920	340	0.73	0.026	3.7	81
12/08/2011	28.26	99.62	1307	0.99	5.86	24.98	11.78	570	260	0.77	0.026	3.6	65
01/05/2012	28.40	99.48	1032	1.45	5.9	24.58	8.8	610	230	0.57	0.029	3.5	58
02/10/2012	28.42	99.46	880	0.89	5.8	25.26	5.17	510	160	0.58	0.025	3.2	41
03/07/2012	28.55	99.33	992	2.01	5.94	25.1	3.6	420	160	0.42	0.026	2.8	45
04/05/2012	28.66	99.22	606	0.4	5.7	25.63	0	270	81	0.9	0.026	4	26
05/03/2012	28.70	99.18	540	0.43	5.68	25.84	0.69	250	65	1.5	0.025	4.1	24
06/07/2012	28.60	99.28	379	0.63	5.68	25.53	1.6	200	36	1.6	0.026	3.8	17
07/05/2012	27.23	100.65	527	0.62	5.72	26.35	2.34	310	87	1.4	0.024	3.4	30
08/03/2012	27.93	99.95	445	0.74	5.69	26.71	2.24	480	150	2.2	0.025	4.1	50
09/06/2012	27.24	99.83	696	0.31	5.6	25.02	0.83	390	130	1.5	0.028	3.5	36
10/04/2012	27.66	100.22	645	0.28	5.61	26.51	2.57	410	130	1.2	0.025	3.6	41
11/07/2012	28.00	99.88	652	0.46	5.71	26.24	1.1	320	97	1	0.03	3.6	36
12/05/2012	28.28	99.60	530	0.58	5.64	26.04	0.59	270	64	1.1	0.025	3.7	30
01/02/2013	28.19	99.69	507	1.52	5.63	25.71	1.06	290	47	0.97	0.025	3.3	26

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

5.76 EXCEEDS STANDARD

**Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-72**

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
01/27/2011	115.69	15.27	551	0.39	7.43	22.88	3.2	320	32	0.22	0.004 u	0.52	32
02/03/2011	112.18	18.78	565	1.09	7.38	22.95	9.9	300	32	0.21	0.004 u	0.62	27
02/10/2011	109.80	21.16	514	1.58	7.34	22.65	3.2	340	31	0.28	0.004 u	0.54	31
02/14/2011	108.18	22.78	483	1.15	7.36	22.7	3.5	320	32	0.24	0.0013 u	0.58	32
02/24/2011	111.71	19.25	513	0.19	7.34	22.85	1	350	32	0.22	0.004 u	0.53	31
03/03/2011	111.88	19.08	579	0.77	7.35	22.8	0.8	330	31	0.23	0.004 u	0.43	32
03/10/2011	113.65	17.31	551	1.26	7.41	22.73	0.9	320	30	0.18	0.004 u	0.35	31
03/17/2011	112.85	18.11	388	1.05	7.34	22.9	0.9	330	30	0.31	0.004 u	0.25	31
03/24/2011	114.33	16.63	1192	1.5	7.58	23.1	1.5	1,100	350	9	0.004 u	0.64	130
04/01/2011	115.70	15.26	928	0.16	7.41	22.8	3.6	520	110	2	0.004 u	0.24	59
04/08/2011	112.10	18.86	810	0.92	7.35	23.13	6.1	420	87	1.9	0.004 u	0.22	51
05/05/2011	116.21	14.75	609	0.71	7.67	23.01	6.6	320	33	0.3	0.004 u	0.27	37
06/08/2011	119.19	11.77	607	0.71	7.65	23.35	4.51	340	32	0.57	0.004 u	0.2	34
07/07/2011	113.30	17.66	606	0.72	7.4	23.25	3.94	150	64	2.1	0.004 u	7.9	27
08/04/2011	103.31	27.65	564	0.33	7.29	23.18	0.4	360	33	0.21	0.004 u	0.18 i	34
09/08/2011	97.99	32.97	536	1.11	7.29	23.2	0.6	340	34	0.41	0.004 u	0.18 i	36
10/04/2011	99.45	31.51	471	1.69	7.31	23.13	1.1	290	31	0.3	0.004 u	0.14 i	34
11/03/2011	103.37	27.59	550	1.8	7.28	23.04	1.51	290	32	0.29	0.004 u	0.15 i	34
12/08/2011	106.80	24.16	528	1.92	7.31	22.9	0.73	320	29	0.32	0.004 u	0.13 i	33
01/05/2012	113.08	17.88	535	0.2	7.23	22.74	0.44	330	32	0.29	0.004 u	0.097 i	31
02/10/2012	113.86	17.10	511	0.94	7.3	22.89	1.39	310	28	0.28	0.004 u	0.13 i	30
03/07/2012	121.00	9.96	575	0.27	7.15	23.23	0.5	310	25	0.22	0.004 u	0.11 i	31
04/05/2012	124.96	6.00	522	1.09	7.08	23.18	0.65	280	28	0.41	0.004 u	0.11 i	29
05/03/2012	126.55	4.41	746	1.6	6.9	23.46	0.81	380	72	2.3	0.004 u	0.54	49
06/07/2012	120.46	10.50	641	0.72	7.07	23.4	0.26	370	46	1	0.004 u	0.23	37
07/05/2012	104.95	26.01	900	0.23	6.54	23.52	0.4	650	190	2.9 j3	0.004 u	0.39	70
08/03/2012	98.26	32.70	843	0.69	6.77	23.6	2.23	730	210	3	0.004 u	0.48	78
09/06/2012	91.18	39.66	2,357	0.2	6.51	23.62	1.05	1,300	570	12	0.004 u	1.1	170
10/04/2012	90.19	40.77	1,654	0.6	6.43	23.22	0.46	1,500	650	25	0.004 u	1.9	210
11/07/2012	99.29	31.67	2,488	0.76	6.58	23.03	0.74	1,400	540	15	0.004 u	1.4	180
12/05/2012	101.82	29.14	2,416	0.23	6.49	23.18	0.45	1,300	540	13	0.004 u	1.3	180 j3
01/02/2013	100.65	30.31	2,430	1.1	6.44	23.09	0.42	1,400	500	15	0.004 u	1.3	170 j3

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

j3 = estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

1,100 EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-73

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
01/27/2011	30.99	100.08	440	1.7	5.53	25.01	22.2	180	69	2.3	0.004 u	15	38
02/03/2011	30.85	100.22	400	1.78	5.62	26.12	17.6	140	56	1.9	0.004 u	31	26
02/10/2011	30.76	100.31	336	1.44	5.62	25.86	12	160	56	2	0.004 u	26	27
02/14/2011	30.82	100.25	312	0.56	5.54	26	15.5	190	55	2.6	0.004 u	34	24
02/24/2011	30.78	100.29	340	0.38	5.62	26.15	16.4	170	61	3	0.004 u	17	28
03/03/2011	30.87	100.20	382	0.53	5.56	26	19.4	200	61	2.1	0.004 u	21	29
03/10/2011	30.87	100.20	371	0.66	5.56	25.97	8.3	170	60	1.7	0.004 u	21	27
03/17/2011	30.76	100.31	266	1.22	5.35	26	14.3	150	69	2.1	0.004 u	12	33
03/24/2011	30.78	100.29	346	0.61	5.47	26.02	8	140	63	2	0.004 u	13	27
04/01/2011	31.11	99.96	366	0.78	5.53	25.89	19.8	160	68	1.7	0.004 u	14	29
04/08/2011	30.65	100.42	331	0.62	5.35	25.97	18	140	66	2.1	0.004 u	11	30
05/05/2011	31.70	99.37	361	0.4	5.34	25.64	12.2	150	66	2	0.004 u	20	28
06/08/2011	32.54	98.53	391	0.7	5.41	25.69	14	150	63	2.2	0.004 u	14	27
07/07/2011	31.55	99.52	306	0.35	5.13	25.34	19.2	350	33	0.52	0.004 u	0.22	31
08/04/2011	31.40	99.67	262	0.89	5.12	25.44	19.9	140	60	1.2	0.004 u	8.2	24
09/08/2011	30.66	100.41	259	0.49	5.24	25.41	28.1	170	62	1.9	0.004 u	8.5	27
10/04/2011	31.16	99.91	345	0.89	5.2	25.48	12	220	96	1.8	0.004 u	9.1	33
11/03/2011	31.27	99.80	1273	0.3	5.21	25.55	8.16	720	360	7.3	0.004 u	22	97
12/08/2011	31.96	99.11	1499	0.62	5.3	25.24	2.64	820	500	3	0.004 u	26	110
01/05/2012	32.31	98.76	1188	0.71	5.16	25.18	2.05	750	350	3.3	0.004 u	19	80
02/10/2012	32.25	98.82	304	0.55	5.28	25.24	3.31	190	67	1.6	0.004 u	4.9	23
03/07/2012	32.42	98.65	312	1.08	5.22	25.24	3.3	150	56	1.2	0.004 u	4.7	22
04/05/2012	32.63	98.44	231	0.79	5.06	24.94	4.39	120	50	1.1	0.004 u	4.1	20
05/03/2012	32.74	98.33	283	0.99	4.8	24.88	6.47	160	63	1.9	0.004 u	4.5	22
06/07/2012	32.40	98.67	224	0.87	4.82	24.64	5.6	140	48	1.6	0.004 u	3.3	18
07/05/2012	31.51	99.56	232	0.31	4.77	24.63	9	140	50	1.7	0.004 u	4	18
08/03/2012	32.09	98.98	201	0.71	5.02	24.63	5.13	160	52	1.7	0.004 u	3.8	19
09/06/2012	31.22	99.76	242	0.5	5.06	24.67	7.39	140	47	1.3	0.004 u	3.6	18
10/04/2012	31.46	99.61	222	0.18	4.86	24.68	7.56	130	43	1.2	0.004 u	3.4	16
11/07/2012	31.84	99.23	231	0.39	5.06	24.75	5.54	130	45	0.94	0.004 u	3.6	16
12/05/2012	32.14	98.93	237	0.2	5.03	24.9	3.26	110	46	0.84	0.004 u	3.5	17
01/02/2013	31.91	99.16	237	0.49	4.95	24.84	2.47	130	45	1.1	0.004 u	3.2	16

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

5.53 EXCEEDS STANDARD

**Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-74**

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
11/03/2011	9.65	ND	485	0.51	5.56	23.62	5.45	280	48	2.9	0.004 u	26	20
12/08/2011	10.11	98.97	445	0.89	5.64	22.9	14.7	270	40	2.3	0.0042 i	27	21
01/05/2012	10.30	98.78	474	0.66	5.66	21.97	16.8	240	59	1.8	0.004 u	30	26
02/10/2012	10.22	98.86	501	0.6	5.42	21.48	9.99	350	95	2.5	0.004 u	34	22
03/07/2012	10.40	98.68	618	0.53	5.24	21.57	8.7	210	120	2.3	0.004 u	38	22
04/05/2012	10.53	98.55	592	0.79	5.13	21.74	13.7	270	120	2.8	0.004 u	40	24
05/03/2012	10.71	98.37	602	0.86	5.15	21.93	12.5	330	110	2.8	0.004 u	38	25
06/07/2012	10.45	98.63	334	0.75	5.35	22.48	6.92	210	37	3	0.004 u	20	16
07/05/2012	9.45	99.63	495	0.32	4.99	23.09	5.33	240	73	2.1	0.004 u	11	27
08/03/2012	9.99	99.09	261	0.37	5.18	23.63	6.12	210	47	3	0.004 u	19	15
09/06/2012	9.36	99.66	578	0.24	5.33	24.08	2.37	330	110	2.8	0.012	21	36
10/04/2012	9.53	99.55	369	0.25	5.36	24.12	3.98	260	76	3.5	0.0055 i	19	22
11/07/2012	9.91	99.17	385	0.36	5.47	23.53	3.21	240	60	1.9	0.0045 i	18	20
12/05/2012	10.14	98.94	398	0.34	5.44	22.82	3.08	230	59	2.7	0.004 u	21	19
01/02/2013	9.96	99.12	418	0.31	5.43	22.03	3.03	280	59	2.7	0.004 u	20	20

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

5.56

EXCEEDS STANDARD

**Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
TH-75**

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
11/03/2011	7.68	ND	396	0.25	5.65	23.63	11.6	220	49	1.4	0.0085 i	11	14
12/08/2011	7.90	99.02	301	0.46	5.57	22.9	20.1	150	23	1.1	0.011	8.9	11
01/05/2012	8.01	98.91	300	0.92	5.58	21.69	18.9	180	25	1.1	0.0071 i	8.6	10
02/10/2012	8.00	98.92	422	0.51	5.48	21.5	17.9	280	81	1.1	0.0072 i	12	20
03/07/2012	8.14	98.78	495	0.26	5.39	21.5	19.6	220	79	0.96	0.0079 i	13	22
04/05/2012	8.15	98.77	584	0.33	5.37	21.76	4.94	300	130	1.3	0.0063 i	16	26
05/03/2012	8.27	98.65	588	0.28	5.32	22.06	0.0	350	120	1.9	0.0078 i	16	33
06/07/2012	8.14	98.78	702	0.39	5.61	22.87	5.69	480	140	1.5	0.0095 i	10	40
07/05/2012	7.36	99.56	344	0.22	5.35	23.52	6.48	180	37	2	0.01	9.8	15
08/03/2012	7.80	99.12	241	0.28	5.28	24.07	4.21	190	25	1.8	0.008 i	8.3	14
09/06/2012	7.42	99.50	360	0.18	5.41	24.5	4.41	200	40	2	0.01	9.1	15
10/04/2012	7.55	99.37	346	0.15	5.35	24.54	6.73	240	51	2.5	0.0084 i	9.2	15
11/07/2012	7.79	99.13	422	0.3	5.48	23.8	2.51	200	54	1.6	0.0086 i	9.8	17
12/05/2012	7.98	98.94	395	0.31	5.5	22.97	7.22	210	48	1.4	0.0067 i	9.2	16
01/02/2013	7.88	99.04	447	0.37	5.53	21.89	13.9	400	60	1.3	0.0065 i	8.1	21

New survey data beginning with 10/4/2012.

i = reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

5.65	EXCEEDS STANDARD
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Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
SUP-1

	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/28/2010	275	0.49	7.63	24.46	0.1	180	9.9	0.17	ND	ND	11
01/04/2011	387	1.9	7.51	21.04	0.1	210	18	0.18	ND	ND	13
01/13/2011	380	0.27	7.64	24.36	0	190	10	0.13	0.004 u	0.05 u	8.1
01/20/2011	387	0.09	7.45	24.36	0.1	190	10	0.15	0.004 u	0.058	8.5
01/27/2011	378	0.1	7.63	24.43	2	190	9.9	0.17	0.004 u	0.05 u	8.7
02/03/2011	353	0.31	7.59	24.42	0.1	190	9.9	0.14	0.004 u	0.05 u	8.2
02/10/2011	322	0.31	7.66	24.33	0.2	210	9.9	0.11	0.004 u	0.05 u	8.6
02/14/2011	289	0.33	7.6	24.3	0.2	190	10	0.084	0.004 u	0.05 u	8.5
02/24/2011	373	0.5	7.66	24.48	0.1	220	9.9	0.096	0.004 u	0.05 u	8.7
03/03/2011	370	0.08	7.68	24.48	0.3	190	9.9	0.13	0.004 u	0.05 u	8.6
03/10/2011	330	0.07	7.66	24.37	0.3	190	9.7	0.17	0.004 u	0.05 u	8.6
03/17/2011	244	0.06	7.58	24.49	0.2	210	9.6	0.16	0.004 u	0.05 u	8.6
03/24/2011	239	0.06	7.64	24.7	0.7	210	9.7	0.22	0.004 u	0.05 u	8.7
04/01/2011	370	0.06	7.69	24.31	0.4	200	9.3	0.15	0.004 u	0.05 u	8.7
04/08/2011	354	0.04	7.53	24.54	0	190	9.7	0.16	0.004 u	0.05 u	8.7
05/05/2011	351	0.16	7.86	24.59	0.1	210	9.2	0.14	0.004 u	0.05 u	8.7
06/08/2011	373	0.11	7.61	24.6	0.35	220	9.5	0.18	0.004 u	0.05 u	8.4
07/07/2011	350	0.07	7.5	24.47	0.23	210	10	0.16	0.004 u	0.05 u	8.8
08/04/2011	337	0.03	7.49	24.54	0.1	230	9.1	0.27	0.004 u	0.05 u	8.4
09/08/2011	323	0.1	7.52	24.46	0.5	220	9.3	0.19	0.004 u	0.05 u	9
10/04/2011	322	0.18	7.47	24.45	0	190	9	0.16	0.004 u	0.05 u	9
11/03/2011	339	0.5	7.46	24.38	0	170	9.5	0.15	0.004 u	0.05 u	8.6
12/08/2011	328	0.07	7.52	24.51	0.14	200	8.6	0.16	0.004 u	0.05 u	8.6
01/05/2012	317	0.08	7.5	24.34	0.06	150	9.6	0.16	0.004 u	0.05 u	9
02/10/2012	313	0.06	7.45	24.44	0.1	220	10	0.14	0.004 u	0.05 u	8.4
03/07/2012	362	0.05	7.34	24.53	0	190	9.8	0.074	0.004 u	0.05 u	8.5
04/05/2012	363	0.04	7.37	24.53	0	150	9.4	0.15	0.004 u	0.41	8.3
05/03/2012	348	0.07	7.4	24.59	0	180	9.5	0.33	0.004 u	0.05 u	9
06/07/2012	292	0.06	7.29	24.6	0.07	190	9.2	0.23	0.004 u	0.05 u	8.8
07/05/2012	263	0.07	7.27	24.61	0.02	160	9.1	0.57	0.004 u	0.05 u	8.5
08/03/2012	241	0.08	7.1	24.49	0.08	220	9.1	0.34	0.004 u	0.05 u	8.4
09/06/2012	351	0.06	7.27	24.48	0.74	210	9.7 j3	0.14	0.004 u	0.05 u	8.3
10/04/2012	243	0.06	7.29	24.45	0.17	210	9.4	0.15	0.004 u	0.47	8.3
11/07/2012	365	0.24	7.46	24.32	0.49	210	9.3	0.33	0.004 u	0.05 u	8.3
12/05/2012	360	0.11	7.37	24.49	0.38	200	9.7	0.17	0.004 u	0.05 u	8.4
01/02/2013	372	0.06	7.37	24.31	0.02	250	9.4	0.16	0.004 u	0.05 u	8.6

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

0.41 EXCEEDS STANDARD

Hillsborough County Southeast Landfill
Laboratory Analytical Results from IAMP Groundwater Monitoring
SUP-2

	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
12/28/2010	293	0.27	7.59	24.18	0.1	200	12	0.15	ND	ND	13
01/04/2011	378	0.29	7.57	24.19	0.1	200	12	0.16	ND	ND	9.2
01/13/2011	389	0.15	7.42	24.4	0	200	11	0.28	0.004 u	0.05 u	8.1
01/20/2011	392	0.24	7.45	24.4	0	210	11	0.14	0.004 u	0.05 u	8.6
01/27/2011	384	0.11	7.59	24.35	0	210	11	0.13	0.004 u	0.05 u	8.8
02/03/2011	360	1.09	7.62	24.43	0.1	190	11	0.18	0.004 u	0.05 u	8.4
02/10/2011	328	0.98	7.76	24.27	0.1	210	11	0.11	0.004 u	0.05 u	8.7
02/14/2011	296	0.35	7.59	24.5	0.2	200	11	0.084	0.004 u	0.05 u	8.8
02/24/2011	381	0.07	7.69	24.45	0.1	230	11	0.065	0.004 u	0.05 u	8.7
03/03/2011	379	0.43	7.72	24.66	0.8	210	11	0.13	0.004 u	0.05 u	8.6
03/10/2011	332	0.06	7.65	24.33	0.3	190	10	0.17	0.004 u	0.05 u	8.4
03/17/2011	246	0.08	7.54	24.32	0.2	210	10	0.16	0.004 u	0.05 u	8.6
03/24/2011	241	0.07	7.6	24.29	0.5	230	10	0.24	0.004 u	0.05 u	8.6
04/01/2011	372	0.05	7.69	24.31	0	210	9.4	0.11	0.004 u	0.05 u	8.7
04/08/2011	359	0.05	7.5	24.46	0.1	190	10	0.12	0.004 u	0.05 u	8.8
05/05/2011	361	0.17	7.8	26.01	0	210	10	0.17	0.004 u	0.05 u	8.7
06/08/2011	381	0.1	7.6	24.52	0.43	230	11	0.22	0.004 u	0.05 u	8.6
07/07/2011	356	0.07	7.5	24.39	0.19	82	30	0.87	0.004 u	0.4	11
08/04/2011	348	0.1	7.56	25.87	0	240	11	0.2	0.004 u	0.05 u	11
09/08/2011	347	0.28	7.56	26.71	1.6	230	12	0.21	0.004 u	0.05 u	10
10/04/2011	331	0.45	7.59	25.84	0	210	11	0.15	0.004 u	0.05 u	8.9
11/03/2011	347	0.07	7.44	24.62	0	180	10	0.16	0.004 u	0.05 u	8.6
12/08/2011	339	0.37	7.44	24.75	0.33	190	9.6	0.19	0.004 u	0.05 u	8.6
01/05/2012	328	0.3	7.57	24.53	1	180	11	0.15	0.004 u	0.05 u	9
02/10/2012	321	0.04	7.49	24.53	0.34	200	11	0.13	0.004 u	0.05 u	8.2
03/07/2012	373	0.04	7.42	24.85	0.1	190	11	0.089	0.004 u	0.05 u	8.2
04/05/2012	376	0.04	7.5	24.94	0	170	11	0.14	0.004 u	0.05 u	8.3
05/03/2012	364	0.17	7.45	24.79	0	190	11	0.29	0.004 u	0.05 u	8.5
06/07/2012	304	0.1	7.15	25.07	0.05	220	10	0.15	0.004 u	0.05 u	8.8
07/05/2012	275	0.08	7.35	24.69	0.07	190	10	0.04	0.004 u	0.05 u	8.6
08/03/2012	265	0.07	7.11	24.82	0.45	220	11	0.61	0.004 u	0.05 u	8.7
09/06/2012	359	0.05	7.24	24.79	0.5	210	11	0.15	0.004 u	0.05 u	8.4
10/04/2012	261	0.06	7.26	24.82	0.12	220	11	0.15	0.004 u	0.05 u	8.4
11/07/2012	381	0.29	7.47	24.47	0.36	210	11	0.16	0.004 u	0.05 u	8.7
12/05/2012	383	0.1	7.39	24.74	0.23	210	13	0.16	0.004 u	0.05 u	9.1
01/02/2013	389	0.06	7.36	24.45	0.22	270	11	0.13	0.004 u	0.05 u	8.5

ND = NO DATA (Not analyzed)

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-52560-1

Client Project/Site: Southeast Monitoring Wells

For:

Hillsborough County Public Utilities Dep
Solid Waste Management Group
Brandon Support Operations Complex
332 North Falkenburg Rd, 2nd Floor
Tampa, Florida 33619

Attn: David Adams



Authorized for release by:
2/19/2013 3:24:06 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-52560-1	TH-73	Ground Water	02/07/13 12:02	02/07/13 15:40
660-52560-2	TH-42	Ground Water	02/07/13 10:50	02/07/13 15:40
660-52560-3	TH-40	Ground Water	02/07/13 09:20	02/07/13 15:40
660-52560-4	TH-19	Ground Water	02/07/13 09:56	02/07/13 15:40
660-52560-5	TH-72	Ground Water	02/07/13 12:48	02/07/13 15:40
660-52560-6	BLANK EQUIPMENT 52560	Ground Water	02/07/13 08:55	02/07/13 15:40
660-52560-7	DUPLICATE NOT BLANK	Ground Water	02/07/13 00:00	02/07/13 15:40
660-52582-1	TH-58	Ground Water	02/08/13 11:22	02/08/13 16:00
660-52582-2	SUP 1	Ground Water	02/08/13 00:00	02/08/13 16:00
660-52582-3	TH-57	Ground Water	02/08/13 09:16	02/08/13 16:00
660-52582-4	TH-75	Ground Water	02/08/13 10:13	02/08/13 16:00
660-52582-5	TH-74	Ground Water	02/08/13 09:43	02/08/13 16:00
660-52582-6	TH-30	Ground Water	02/08/13 10:52	02/08/13 16:00
660-52582-7	TH-28A	Ground Water	02/08/13 11:53	02/08/13 16:00
660-52582-8	SUP 2	Ground Water	02/08/13 12:27	02/08/13 16:00

Case Narrative

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Job ID: 660-52560-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-52560-1

Comments

No additional comments.

Receipt

The samples were received on 2/7/2013 3:40 PM and 2/8/2013 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.9° C and 5.5° C.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike duplicate (MSD) recovery for batch 266570 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 266182 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 266315 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Definitions/Glossary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-73

Lab Sample ID: 660-52560-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	47		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.84		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	120		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.84				SU	1		Field Sampling	Total/NA
Field Temperature	24.79				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.69				mg/L	1		Field Sampling	Total/NA
Specific Conductance	221				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.80				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-42

Lab Sample ID: 660-52560-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	270		200	50	ug/L	1		6010B	Total Recoverable
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	17		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.29		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.02				SU	1		Field Sampling	Total/NA
Field Temperature	23.82				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.23				mg/L	1		Field Sampling	Total/NA
Specific Conductance	536				umhos/cm	1		Field Sampling	Total/NA
Turbidity	10.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-40

Lab Sample ID: 660-52560-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	8.2		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.37		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	23.37				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.65				mg/L	1		Field Sampling	Total/NA
Specific Conductance	391				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.63				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-19

Lab Sample ID: 660-52560-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	13		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	8.2		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.29		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	210		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-19 (Continued)

Lab Sample ID: 660-52560-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	23.45				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.29				mg/L	1		Field Sampling	Total/NA
Specific Conductance	424				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.21				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-72

Lab Sample ID: 660-52560-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1100		200	50	ug/L	1		6010B	Total Recoverable
Sodium	160		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	470		20	4.0	mg/L	20		300.0	Total/NA
Ammonia as N	13		0.50	0.26	mg/L	10		350.1	Total/NA
Total Dissolved Solids	1100		50	50	mg/L	1		SM 2540C	Total/NA
Field pH	6.50				SU	1		Field Sampling	Total/NA
Field Temperature	23.10				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.60				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2206				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.22				NTU	1		Field Sampling	Total/NA

Client Sample ID: BLANK EQUIPMENT 52560

Lab Sample ID: 660-52560-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.57		0.50	0.31	mg/L	1		6010B	Total Recoverable

Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-52560-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1100		200	50	ug/L	1		6010B	Total Recoverable
Sodium	160		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	470		20	4.0	mg/L	20		300.0	Total/NA
Ammonia as N	13		0.50	0.26	mg/L	10		350.1	Total/NA
Total Dissolved Solids	1100		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-58

Lab Sample ID: 660-52582-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		10	4.0	ug/L	1		6010B	Total Recoverable
Iron	3900		200	50	ug/L	1		6010B	Total Recoverable
Sodium	21		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	33		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.2		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.94				SU	1		Field Sampling	Total/NA
Field Temperature	25.99				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-58 (Continued)

Lab Sample ID: 660-52582-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	7.65				mg/L	1		Field Sampling	Total/NA
Specific Conductance	449				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.26				NTU	1		Field Sampling	Total/NA

Client Sample ID: SUP 1

Lab Sample ID: 660-52582-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.2		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	8.7		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.17		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	24.54				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	365				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.00				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-57

Lab Sample ID: 660-52582-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	370		200	50	ug/L	1		6010B	Total Recoverable
Sodium	12		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	29		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.81		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.95				SU	1		Field Sampling	Total/NA
Field Temperature	26.55				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Specific Conductance	184				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.51				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-75

Lab Sample ID: 660-52582-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6	I	10	4.0	ug/L	1		6010B	Total Recoverable
Iron	9800		200	50	ug/L	1		6010B	Total Recoverable
Sodium	19		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	62		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.5		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	240		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.48				SU	1		Field Sampling	Total/NA
Field Temperature	21.71				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.20				mg/L	1		Field Sampling	Total/NA
Specific Conductance	453				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.35				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-74

Lab Sample ID: 660-52582-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	20000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	45		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.9		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.43				SU	1		Field Sampling	Total/NA
Field Temperature	21.66				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.34				mg/L	1		Field Sampling	Total/NA
Specific Conductance	394				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.95				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-30

Lab Sample ID: 660-52582-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	470		200	50	ug/L	1		6010B	Total Recoverable
Sodium	33		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	160		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.8		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	320		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	4.39				SU	1		Field Sampling	Total/NA
Field Temperature	23.94				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.13				mg/L	1		Field Sampling	Total/NA
Specific Conductance	598				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.39				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-28A

Lab Sample ID: 660-52582-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3800		200	50	ug/L	1		6010B	Total Recoverable
Sodium	23		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	63		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.4		0.10	0.052	mg/L	2		350.1	Total/NA
Total Dissolved Solids	160		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.03				SU	1		Field Sampling	Total/NA
Field Temperature	26.94				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.43				mg/L	1		Field Sampling	Total/NA
Specific Conductance	304				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.71				NTU	1		Field Sampling	Total/NA

Client Sample ID: SUP 2

Lab Sample ID: 660-52582-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.4		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	11		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.16		0.050	0.026	mg/L	1		350.1	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: SUP 2 (Continued)

Lab Sample ID: 660-52582-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.22				SU	1		Field Sampling	Total/NA
Field Temperature	24.61				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	385				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.07				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-73

Date Collected: 02/07/13 12:02

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-1

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 17:48	1
Iron	3000		200	50	ug/L		02/08/13 08:53	02/11/13 17:48	1
Sodium	15		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 17:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		5.0	1.0	mg/L			02/14/13 20:51	5
Ammonia as N	0.84		0.050	0.026	mg/L			02/13/13 17:55	1
Total Dissolved Solids	120		5.0	5.0	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.84				SU			02/07/13 12:02	1
Field Temperature	24.79				Degrees C			02/07/13 12:02	1
Oxygen, Dissolved	0.69				mg/L			02/07/13 12:02	1
Specific Conductance	221				umhos/cm			02/07/13 12:02	1
Turbidity	4.80				NTU			02/07/13 12:02	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-42

Date Collected: 02/07/13 10:50

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-2

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 18:04	1
Iron	270		200	50	ug/L		02/08/13 08:53	02/11/13 18:04	1
Sodium	15		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 18:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	1.0	mg/L			02/14/13 21:04	5
Ammonia as N	0.29		0.050	0.026	mg/L			02/13/13 17:55	1
Total Dissolved Solids	280		10	10	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.02				SU			02/07/13 10:50	1
Field Temperature	23.82				Degrees C			02/07/13 10:50	1
Oxygen, Dissolved	0.23				mg/L			02/07/13 10:50	1
Specific Conductance	536				umhos/cm			02/07/13 10:50	1
Turbidity	10.3				NTU			02/07/13 10:50	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-40

Date Collected: 02/07/13 09:20

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-3

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 18:07	1
Iron	50	U	200	50	ug/L		02/08/13 08:53	02/11/13 18:07	1
Sodium	16		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 18:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		5.0	1.0	mg/L			02/14/13 21:17	5
Ammonia as N	0.37		0.050	0.026	mg/L			02/13/13 17:55	1
Total Dissolved Solids	220		5.0	5.0	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.15				SU			02/07/13 09:20	1
Field Temperature	23.37				Degrees C			02/07/13 09:20	1
Oxygen, Dissolved	0.65				mg/L			02/07/13 09:20	1
Specific Conductance	391				umhos/cm			02/07/13 09:20	1
Turbidity	0.63				NTU			02/07/13 09:20	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-19

Date Collected: 02/07/13 09:56

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-4

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 18:10	1
Iron	50	U	200	50	ug/L		02/08/13 08:53	02/11/13 18:10	1
Sodium	13		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 18:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		5.0	1.0	mg/L			02/14/13 21:31	5
Ammonia as N	0.29		0.050	0.026	mg/L			02/13/13 18:21	1
Total Dissolved Solids	210		10	10	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.11				SU			02/07/13 09:56	1
Field Temperature	23.45				Degrees C			02/07/13 09:56	1
Oxygen, Dissolved	0.29				mg/L			02/07/13 09:56	1
Specific Conductance	424				umhos/cm			02/07/13 09:56	1
Turbidity	0.21				NTU			02/07/13 09:56	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-72

Date Collected: 02/07/13 12:48

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-5

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 18:14	1
Iron	1100		200	50	ug/L		02/08/13 08:53	02/11/13 18:14	1
Sodium	160		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 18:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		20	4.0	mg/L			02/14/13 21:44	20
Ammonia as N	13		0.50	0.26	mg/L			02/13/13 19:02	10
Total Dissolved Solids	1100		50	50	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.50				SU			02/07/13 12:48	1
Field Temperature	23.10				Degrees C			02/07/13 12:48	1
Oxygen, Dissolved	0.60				mg/L			02/07/13 12:48	1
Specific Conductance	2206				umhos/cm			02/07/13 12:48	1
Turbidity	0.22				NTU			02/07/13 12:48	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: BLANK EQUIPMENT 52560

Lab Sample ID: 660-52560-6

Date Collected: 02/07/13 08:55

Matrix: Ground Water

Date Received: 02/07/13 15:40

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 18:17	1
Iron	50	U	200	50	ug/L		02/08/13 08:53	02/11/13 18:17	1
Sodium	0.57		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 18:17	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			02/14/13 21:57	5
Ammonia as N	0.026	U	0.050	0.026	mg/L			02/13/13 18:21	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			02/14/13 15:16	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-52560-7

Date Collected: 02/07/13 00:00

Matrix: Ground Water

Date Received: 02/07/13 15:40

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 18:20	1
Iron	1100		200	50	ug/L		02/08/13 08:53	02/11/13 18:20	1
Sodium	160		0.50	0.31	mg/L		02/08/13 08:53	02/11/13 18:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		20	4.0	mg/L			02/17/13 11:42	20
Ammonia as N	13		0.50	0.26	mg/L			02/13/13 19:02	10
Total Dissolved Solids	1100		50	50	mg/L			02/14/13 15:16	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-58

Date Collected: 02/08/13 11:22

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-1

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		10	4.0	ug/L		02/12/13 10:53	02/12/13 19:12	1
Iron	3900		200	50	ug/L		02/12/13 10:53	02/12/13 19:12	1
Sodium	21		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:12	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		5.0	1.0	mg/L			02/14/13 23:30	5
Ammonia as N	1.2		0.050	0.026	mg/L			02/13/13 18:21	1
Total Dissolved Solids	200		10	10	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.94				SU			02/08/13 11:22	1
Field Temperature	25.99				Degrees C			02/08/13 11:22	1
Oxygen, Dissolved	7.65				mg/L			02/08/13 11:22	1
Specific Conductance	449				umhos/cm			02/08/13 11:22	1
Turbidity	3.26				NTU			02/08/13 11:22	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: SUP 1

Date Collected: 02/08/13 00:00

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-2

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:24	1
Iron	50	U	200	50	ug/L		02/12/13 10:53	02/12/13 19:24	1
Sodium	8.2		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:24	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		5.0	1.0	mg/L			02/14/13 23:43	5
Ammonia as N	0.17		0.050	0.026	mg/L			02/13/13 17:38	1
Total Dissolved Solids	200		5.0	5.0	mg/L			02/14/13 15:16	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.27				SU			02/08/13 00:00	1
Field Temperature	24.54				Degrees C			02/08/13 00:00	1
Oxygen, Dissolved	0.07				mg/L			02/08/13 00:00	1
Specific Conductance	365				umhos/cm			02/08/13 00:00	1
Turbidity	0.00				NTU			02/08/13 00:00	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-57

Date Collected: 02/08/13 09:16

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-3

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:27	1
Iron	370		200	50	ug/L		02/12/13 10:53	02/12/13 19:27	1
Sodium	12		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		5.0	1.0	mg/L			02/14/13 23:56	5
Ammonia as N	0.81		0.050	0.026	mg/L			02/13/13 17:38	1
Total Dissolved Solids	110		5.0	5.0	mg/L			02/14/13 17:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.95				SU			02/08/13 09:16	1
Field Temperature	26.55				Degrees C			02/08/13 09:16	1
Oxygen, Dissolved	0.24				mg/L			02/08/13 09:16	1
Specific Conductance	184				umhos/cm			02/08/13 09:16	1
Turbidity	0.51				NTU			02/08/13 09:16	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-75

Date Collected: 02/08/13 10:13

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-4

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6	I	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:31	1
Iron	9800		200	50	ug/L		02/12/13 10:53	02/12/13 19:31	1
Sodium	19		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62		5.0	1.0	mg/L			02/15/13 00:10	5
Ammonia as N	1.5		0.050	0.026	mg/L			02/14/13 14:15	1
Total Dissolved Solids	240		10	10	mg/L			02/14/13 17:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.48				SU			02/08/13 10:13	1
Field Temperature	21.71				Degrees C			02/08/13 10:13	1
Oxygen, Dissolved	0.20				mg/L			02/08/13 10:13	1
Specific Conductance	453				umhos/cm			02/08/13 10:13	1
Turbidity	6.35				NTU			02/08/13 10:13	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-74

Date Collected: 02/08/13 09:43

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-5

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:40	1
Iron	20000		200	50	ug/L		02/12/13 10:53	02/12/13 19:40	1
Sodium	16		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45		5.0	1.0	mg/L			02/15/13 00:23	5
Ammonia as N	1.9		0.050	0.026	mg/L			02/14/13 14:15	1
Total Dissolved Solids	200		5.0	5.0	mg/L			02/14/13 17:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.43				SU			02/08/13 09:43	1
Field Temperature	21.66				Degrees C			02/08/13 09:43	1
Oxygen, Dissolved	0.34				mg/L			02/08/13 09:43	1
Specific Conductance	394				umhos/cm			02/08/13 09:43	1
Turbidity	1.95				NTU			02/08/13 09:43	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-30

Date Collected: 02/08/13 10:52

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-6

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:43	1
Iron	470		200	50	ug/L		02/12/13 10:53	02/12/13 19:43	1
Sodium	33		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		5.0	1.0	mg/L			02/15/13 00:36	5
Ammonia as N	1.8		0.050	0.026	mg/L			02/14/13 14:15	1
Total Dissolved Solids	320		10	10	mg/L			02/14/13 17:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.39				SU			02/08/13 10:52	1
Field Temperature	23.94				Degrees C			02/08/13 10:52	1
Oxygen, Dissolved	0.13				mg/L			02/08/13 10:52	1
Specific Conductance	598				umhos/cm			02/08/13 10:52	1
Turbidity	1.39				NTU			02/08/13 10:52	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-28A

Date Collected: 02/08/13 11:53

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-7

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:47	1
Iron	3800		200	50	ug/L		02/12/13 10:53	02/12/13 19:47	1
Sodium	23		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63		5.0	1.0	mg/L			02/15/13 00:49	5
Ammonia as N	2.4		0.10	0.052	mg/L			02/14/13 14:33	2
Total Dissolved Solids	160		5.0	5.0	mg/L			02/14/13 17:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.03				SU			02/08/13 11:53	1
Field Temperature	26.94				Degrees C			02/08/13 11:53	1
Oxygen, Dissolved	0.43				mg/L			02/08/13 11:53	1
Specific Conductance	304				umhos/cm			02/08/13 11:53	1
Turbidity	1.71				NTU			02/08/13 11:53	1

Client Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: SUP 2

Date Collected: 02/08/13 12:27

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-8

Matrix: Ground Water

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:50	1
Iron	50	U	200	50	ug/L		02/12/13 10:53	02/12/13 19:50	1
Sodium	8.4		0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		5.0	1.0	mg/L			02/15/13 01:03	5
Ammonia as N	0.16		0.050	0.026	mg/L			02/14/13 14:15	1
Total Dissolved Solids	200		10	10	mg/L			02/14/13 17:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.22				SU			02/08/13 12:27	1
Field Temperature	24.61				Degrees C			02/08/13 12:27	1
Oxygen, Dissolved	0.07				mg/L			02/08/13 12:27	1
Specific Conductance	385				umhos/cm			02/08/13 12:27	1
Turbidity	0.07				NTU			02/08/13 12:27	1

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-134251/1-A

Matrix: Water

Analysis Batch: 134325

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134251

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/08/13 08:53	02/11/13 16:44	1
Iron	50	U	200	50	ug/L		02/08/13 08:53	02/11/13 16:44	1
Sodium	0.31	U	0.50	0.31	mg/L		02/08/13 08:53	02/11/13 16:44	1

Lab Sample ID: LCS 660-134251/2-A

Matrix: Water

Analysis Batch: 134325

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	930		ug/L		93	80 - 120
Iron	1000	971		ug/L		97	80 - 120
Sodium	10.0	9.47		mg/L		95	80 - 120

Lab Sample ID: 660-52560-1 MS

Matrix: Ground Water

Analysis Batch: 134325

Client Sample ID: TH-73

Prep Type: Total Recoverable

Prep Batch: 134251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	913		ug/L		91	80 - 120
Iron	3000		1000	3850		ug/L		84	80 - 120
Sodium	15		10.0	24.4		mg/L		90	80 - 120

Lab Sample ID: 660-52560-1 MSD

Matrix: Ground Water

Analysis Batch: 134325

Client Sample ID: TH-73

Prep Type: Total Recoverable

Prep Batch: 134251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	927		ug/L		93	80 - 120	1	20
Iron	3000		1000	3930		ug/L		93	80 - 120	2	20
Sodium	15		10.0	24.9		mg/L		95	80 - 120	2	20

Lab Sample ID: MB 660-134372/1-A

Matrix: Water

Analysis Batch: 134405

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 134372

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		02/12/13 10:53	02/12/13 19:02	1
Iron	50	U	200	50	ug/L		02/12/13 10:53	02/12/13 19:02	1
Sodium	0.31	U	0.50	0.31	mg/L		02/12/13 10:53	02/12/13 19:02	1

Lab Sample ID: LCS 660-134372/2-A

Matrix: Water

Analysis Batch: 134405

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 134372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	981		ug/L		98	80 - 120
Iron	1000	1060		ug/L		106	80 - 120
Sodium	10.0	9.78		mg/L		98	80 - 120

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 660-52582-1 MS

Matrix: Ground Water

Analysis Batch: 134405

Client Sample ID: TH-58

Prep Type: Total Recoverable

Prep Batch: 134372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	25		1000	1010		ug/L		98	80 - 120
Iron	3900		1000	4920		ug/L		106	80 - 120
Sodium	21		10.0	31.2		mg/L		105	80 - 120

Lab Sample ID: 660-52582-1 MSD

Matrix: Ground Water

Analysis Batch: 134405

Client Sample ID: TH-58

Prep Type: Total Recoverable

Prep Batch: 134372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	25		1000	1010		ug/L		98	80 - 120	0	20
Iron	3900		1000	4820		ug/L		96	80 - 120	2	20
Sodium	21		10.0	30.8		mg/L		102	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-266428/2

Matrix: Water

Analysis Batch: 266428

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			02/14/13 20:11	5

Lab Sample ID: LCS 680-266428/3

Matrix: Water

Analysis Batch: 266428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.7		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-266428/4

Matrix: Water

Analysis Batch: 266428

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	51.4		mg/L		103	90 - 110	1	30

Lab Sample ID: 660-52582-8 MS

Matrix: Ground Water

Analysis Batch: 266428

Client Sample ID: SUP 2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11		50.0	62.5		mg/L		103	90 - 110

Lab Sample ID: 660-52582-8 MSD

Matrix: Ground Water

Analysis Batch: 266428

Client Sample ID: SUP 2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11		50.0	62.8		mg/L		104	90 - 110	1	30

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-266570/8

Matrix: Water

Analysis Batch: 266570

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			02/17/13 11:02	5

Lab Sample ID: LCS 680-266570/9

Matrix: Water

Analysis Batch: 266570

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	45.6		mg/L		91	90 - 110

Lab Sample ID: LCSD 680-266570/10

Matrix: Water

Analysis Batch: 266570

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	48.4		mg/L		97	90 - 110	6	30

Lab Sample ID: 660-52598-A-1 MS

Matrix: Water

Analysis Batch: 266570

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	460	J3	200	673		mg/L		107	90 - 110

Lab Sample ID: 660-52598-A-1 MSD

Matrix: Water

Analysis Batch: 266570

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	460	J3	200	634	J3	mg/L		88	90 - 110	6	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-266182/2

Matrix: Water

Analysis Batch: 266182

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.026	U	0.050	0.026	mg/L			02/13/13 17:38	1

Lab Sample ID: LCS 680-266182/1

Matrix: Water

Analysis Batch: 266182

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.995		mg/L		99	90 - 110

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-52387-B-10 MS

Matrix: Water

Analysis Batch: 266182

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.9	J3 J3	1.00	2.73	J3	mg/L		83	90 - 110

Lab Sample ID: 660-52387-B-10 MSD

Matrix: Water

Analysis Batch: 266182

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	1.9	J3 J3	1.00	2.72	J3	mg/L		83	90 - 110	0	30

Lab Sample ID: 660-52560-3 DU

Matrix: Ground Water

Analysis Batch: 266182

Client Sample ID: TH-40

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	0.37		0.376		mg/L		0.5	30

Lab Sample ID: MB 680-266315/2

Matrix: Water

Analysis Batch: 266315

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.026	U	0.050	0.026	mg/L			02/14/13 14:15	1

Lab Sample ID: LCS 680-266315/1

Matrix: Water

Analysis Batch: 266315

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	0.947		mg/L		95	90 - 110

Lab Sample ID: 680-87285-C-1 MS

Matrix: Water

Analysis Batch: 266315

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.074	J3 J3	1.00	0.720	J3	mg/L		64	90 - 110

Lab Sample ID: 680-87285-C-1 MSD

Matrix: Water

Analysis Batch: 266315

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.074	J3 J3	1.00	0.735	J3	mg/L		66	90 - 110	2	30

Lab Sample ID: 640-42109-D-3 DU

Matrix: Water

Analysis Batch: 266315

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia as N	0.51		0.508		mg/L		0.4	30

TestAmerica Tampa

QC Sample Results

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 660-134491/1

Matrix: Water

Analysis Batch: 134491

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			02/14/13 15:16	1

Lab Sample ID: LCS 660-134491/2

Matrix: Water

Analysis Batch: 134491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9820		mg/L		98	80 - 120

Lab Sample ID: 660-52560-7 DU

Matrix: Ground Water

Analysis Batch: 134491

Client Sample ID: DUPLICATE NOT BLANK

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1140		mg/L		4	20

Lab Sample ID: MB 660-134497/1

Matrix: Water

Analysis Batch: 134497

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			02/14/13 17:06	1

Lab Sample ID: LCS 660-134497/2

Matrix: Water

Analysis Batch: 134497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9880		mg/L		99	80 - 120

Lab Sample ID: 660-52582-4 DU

Matrix: Ground Water

Analysis Batch: 134497

Client Sample ID: TH-75

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	240		236		mg/L		0	20

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Metals

Prep Batch: 134251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52560-1	TH-73	Total Recoverable	Ground Water	3005A	
660-52560-1 MS	TH-73	Total Recoverable	Ground Water	3005A	
660-52560-1 MSD	TH-73	Total Recoverable	Ground Water	3005A	
660-52560-2	TH-42	Total Recoverable	Ground Water	3005A	
660-52560-3	TH-40	Total Recoverable	Ground Water	3005A	
660-52560-4	TH-19	Total Recoverable	Ground Water	3005A	
660-52560-5	TH-72	Total Recoverable	Ground Water	3005A	
660-52560-6	BLANK EQUIPMENT 52560	Total Recoverable	Ground Water	3005A	
660-52560-7	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	3005A	
LCS 660-134251/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-134251/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 134325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52560-1	TH-73	Total Recoverable	Ground Water	6010B	134251
660-52560-1 MS	TH-73	Total Recoverable	Ground Water	6010B	134251
660-52560-1 MSD	TH-73	Total Recoverable	Ground Water	6010B	134251
660-52560-2	TH-42	Total Recoverable	Ground Water	6010B	134251
660-52560-3	TH-40	Total Recoverable	Ground Water	6010B	134251
660-52560-4	TH-19	Total Recoverable	Ground Water	6010B	134251
660-52560-5	TH-72	Total Recoverable	Ground Water	6010B	134251
660-52560-6	BLANK EQUIPMENT 52560	Total Recoverable	Ground Water	6010B	134251
660-52560-7	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	6010B	134251
LCS 660-134251/2-A	Lab Control Sample	Total Recoverable	Water	6010B	134251
MB 660-134251/1-A	Method Blank	Total Recoverable	Water	6010B	134251

Prep Batch: 134372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52582-1	TH-58	Total Recoverable	Ground Water	3005A	
660-52582-1 MS	TH-58	Total Recoverable	Ground Water	3005A	
660-52582-1 MSD	TH-58	Total Recoverable	Ground Water	3005A	
660-52582-2	SUP 1	Total Recoverable	Ground Water	3005A	
660-52582-3	TH-57	Total Recoverable	Ground Water	3005A	
660-52582-4	TH-75	Total Recoverable	Ground Water	3005A	
660-52582-5	TH-74	Total Recoverable	Ground Water	3005A	
660-52582-6	TH-30	Total Recoverable	Ground Water	3005A	
660-52582-7	TH-28A	Total Recoverable	Ground Water	3005A	
660-52582-8	SUP 2	Total Recoverable	Ground Water	3005A	
LCS 660-134372/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-134372/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 134405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52582-1	TH-58	Total Recoverable	Ground Water	6010B	134372
660-52582-1 MS	TH-58	Total Recoverable	Ground Water	6010B	134372
660-52582-1 MSD	TH-58	Total Recoverable	Ground Water	6010B	134372
660-52582-2	SUP 1	Total Recoverable	Ground Water	6010B	134372
660-52582-3	TH-57	Total Recoverable	Ground Water	6010B	134372
660-52582-4	TH-75	Total Recoverable	Ground Water	6010B	134372
660-52582-5	TH-74	Total Recoverable	Ground Water	6010B	134372
660-52582-6	TH-30	Total Recoverable	Ground Water	6010B	134372

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Metals (Continued)

Analysis Batch: 134405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52582-7	TH-28A	Total Recoverable	Ground Water	6010B	134372
660-52582-8	SUP 2	Total Recoverable	Ground Water	6010B	134372
LCS 660-134372/2-A	Lab Control Sample	Total Recoverable	Water	6010B	134372
MB 660-134372/1-A	Method Blank	Total Recoverable	Water	6010B	134372

General Chemistry

Analysis Batch: 134491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52560-1	TH-73	Total/NA	Ground Water	SM 2540C	
660-52560-2	TH-42	Total/NA	Ground Water	SM 2540C	
660-52560-3	TH-40	Total/NA	Ground Water	SM 2540C	
660-52560-4	TH-19	Total/NA	Ground Water	SM 2540C	
660-52560-5	TH-72	Total/NA	Ground Water	SM 2540C	
660-52560-6	BLANK EQUIPMENT 52560	Total/NA	Ground Water	SM 2540C	
660-52560-7	DUPLICATE NOT BLANK	Total/NA	Ground Water	SM 2540C	
660-52560-7 DU	DUPLICATE NOT BLANK	Total/NA	Ground Water	SM 2540C	
660-52582-1	TH-58	Total/NA	Ground Water	SM 2540C	
660-52582-2	SUP 1	Total/NA	Ground Water	SM 2540C	
LCS 660-134491/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-134491/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 134497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52582-3	TH-57	Total/NA	Ground Water	SM 2540C	
660-52582-4	TH-75	Total/NA	Ground Water	SM 2540C	
660-52582-4 DU	TH-75	Total/NA	Ground Water	SM 2540C	
660-52582-5	TH-74	Total/NA	Ground Water	SM 2540C	
660-52582-6	TH-30	Total/NA	Ground Water	SM 2540C	
660-52582-7	TH-28A	Total/NA	Ground Water	SM 2540C	
660-52582-8	SUP 2	Total/NA	Ground Water	SM 2540C	
LCS 660-134497/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-134497/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 266182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52387-B-10 MS	Matrix Spike	Total/NA	Water	350.1	
660-52387-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-52560-1	TH-73	Total/NA	Ground Water	350.1	
660-52560-2	TH-42	Total/NA	Ground Water	350.1	
660-52560-3	TH-40	Total/NA	Ground Water	350.1	
660-52560-3 DU	TH-40	Total/NA	Ground Water	350.1	
660-52560-4	TH-19	Total/NA	Ground Water	350.1	
660-52560-5	TH-72	Total/NA	Ground Water	350.1	
660-52560-6	BLANK EQUIPMENT 52560	Total/NA	Ground Water	350.1	
660-52560-7	DUPLICATE NOT BLANK	Total/NA	Ground Water	350.1	
660-52582-1	TH-58	Total/NA	Ground Water	350.1	
660-52582-2	SUP 1	Total/NA	Ground Water	350.1	
660-52582-3	TH-57	Total/NA	Ground Water	350.1	
LCS 680-266182/1	Lab Control Sample	Total/NA	Water	350.1	

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

General Chemistry (Continued)

Analysis Batch: 266182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-266182/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 266315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42109-D-3 DU	Duplicate	Total/NA	Water	350.1	
660-52582-4	TH-75	Total/NA	Ground Water	350.1	
660-52582-5	TH-74	Total/NA	Ground Water	350.1	
660-52582-6	TH-30	Total/NA	Ground Water	350.1	
660-52582-7	TH-28A	Total/NA	Ground Water	350.1	
660-52582-8	SUP 2	Total/NA	Ground Water	350.1	
680-87285-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
680-87285-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
LCS 680-266315/1	Lab Control Sample	Total/NA	Water	350.1	
MB 680-266315/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 266428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52560-1	TH-73	Total/NA	Ground Water	300.0	
660-52560-2	TH-42	Total/NA	Ground Water	300.0	
660-52560-3	TH-40	Total/NA	Ground Water	300.0	
660-52560-4	TH-19	Total/NA	Ground Water	300.0	
660-52560-5	TH-72	Total/NA	Ground Water	300.0	
660-52560-6	BLANK EQUIPMENT 52560	Total/NA	Ground Water	300.0	
660-52582-1	TH-58	Total/NA	Ground Water	300.0	
660-52582-2	SUP 1	Total/NA	Ground Water	300.0	
660-52582-3	TH-57	Total/NA	Ground Water	300.0	
660-52582-4	TH-75	Total/NA	Ground Water	300.0	
660-52582-5	TH-74	Total/NA	Ground Water	300.0	
660-52582-6	TH-30	Total/NA	Ground Water	300.0	
660-52582-7	TH-28A	Total/NA	Ground Water	300.0	
660-52582-8	SUP 2	Total/NA	Ground Water	300.0	
660-52582-8 MS	SUP 2	Total/NA	Ground Water	300.0	
660-52582-8 MSD	SUP 2	Total/NA	Ground Water	300.0	
LCS 680-266428/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-266428/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-266428/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 266570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52560-7	DUPLICATE NOT BLANK	Total/NA	Ground Water	300.0	
660-52598-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
660-52598-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 680-266570/9	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-266570/10	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-266570/8	Method Blank	Total/NA	Water	300.0	

TestAmerica Tampa

QC Association Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Field Service / Mobile Lab

Analysis Batch: 134430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52582-1	TH-58	Total/NA	Ground Water	Field Sampling	
660-52582-2	SUP 1	Total/NA	Ground Water	Field Sampling	
660-52582-3	TH-57	Total/NA	Ground Water	Field Sampling	
660-52582-4	TH-75	Total/NA	Ground Water	Field Sampling	
660-52582-5	TH-74	Total/NA	Ground Water	Field Sampling	
660-52582-6	TH-30	Total/NA	Ground Water	Field Sampling	
660-52582-7	TH-28A	Total/NA	Ground Water	Field Sampling	
660-52582-8	SUP 2	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 134494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-52560-1	TH-73	Total/NA	Ground Water	Field Sampling	
660-52560-2	TH-42	Total/NA	Ground Water	Field Sampling	
660-52560-3	TH-40	Total/NA	Ground Water	Field Sampling	
660-52560-4	TH-19	Total/NA	Ground Water	Field Sampling	
660-52560-5	TH-72	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-73

Date Collected: 02/07/13 12:02

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 17:48	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 17:55	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 20:51	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134494	02/07/13 12:02		TAL TAM

Client Sample ID: TH-42

Date Collected: 02/07/13 10:50

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 18:04	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 17:55	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 21:04	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134494	02/07/13 10:50		TAL TAM

Client Sample ID: TH-40

Date Collected: 02/07/13 09:20

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 18:07	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 17:55	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 21:17	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134494	02/07/13 09:20		TAL TAM

Client Sample ID: TH-19

Date Collected: 02/07/13 09:56

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 18:10	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 18:21	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 21:31	CB	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-19

Date Collected: 02/07/13 09:56

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	134494	02/07/13 09:56		TAL TAM

Client Sample ID: TH-72

Date Collected: 02/07/13 12:48

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 18:14	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		10	266182	02/13/13 19:02	RW	TAL SAV
Total/NA	Analysis	300.0		20	266428	02/14/13 21:44	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134494	02/07/13 12:48		TAL TAM

Client Sample ID: BLANK EQUIPMENT 52560

Date Collected: 02/07/13 08:55

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 18:17	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 18:21	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 21:57	CB	TAL SAV

Client Sample ID: DUPLICATE NOT BLANK

Date Collected: 02/07/13 00:00

Date Received: 02/07/13 15:40

Lab Sample ID: 660-52560-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134251	02/08/13 08:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134325	02/11/13 18:20	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		10	266182	02/13/13 19:02	RW	TAL SAV
Total/NA	Analysis	300.0		20	266570	02/17/13 11:42	CB	TAL SAV

Client Sample ID: TH-58

Date Collected: 02/08/13 11:22

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-58

Date Collected: 02/08/13 11:22

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:12	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 18:21	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 23:30	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 11:22		TAL TAM

Client Sample ID: SUP 1

Date Collected: 02/08/13 00:00

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:24	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134491	02/14/13 15:16	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 17:38	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 23:43	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 00:00		TAL TAM

Client Sample ID: TH-57

Date Collected: 02/08/13 09:16

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:27	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134497	02/14/13 17:06	TO	TAL TAM
Total/NA	Analysis	350.1		1	266182	02/13/13 17:38	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/14/13 23:56	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 09:16		TAL TAM

Client Sample ID: TH-75

Date Collected: 02/08/13 10:13

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:31	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134497	02/14/13 17:06	TO	TAL TAM
Total/NA	Analysis	350.1		1	266315	02/14/13 14:15	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/15/13 00:10	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 10:13		TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: TH-74

Date Collected: 02/08/13 09:43

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:40	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134497	02/14/13 17:06	TO	TAL TAM
Total/NA	Analysis	350.1		1	266315	02/14/13 14:15	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/15/13 00:23	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 09:43		TAL TAM

Client Sample ID: TH-30

Date Collected: 02/08/13 10:52

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:43	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134497	02/14/13 17:06	TO	TAL TAM
Total/NA	Analysis	350.1		1	266315	02/14/13 14:15	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/15/13 00:36	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 10:52		TAL TAM

Client Sample ID: TH-28A

Date Collected: 02/08/13 11:53

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:47	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134497	02/14/13 17:06	TO	TAL TAM
Total/NA	Analysis	350.1		2	266315	02/14/13 14:33	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/15/13 00:49	CB	TAL SAV
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 11:53		TAL TAM

Client Sample ID: SUP 2

Date Collected: 02/08/13 12:27

Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			134372	02/12/13 10:53	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	134405	02/12/13 19:50	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	134497	02/14/13 17:06	TO	TAL TAM
Total/NA	Analysis	350.1		1	266315	02/14/13 14:15	RW	TAL SAV
Total/NA	Analysis	300.0		5	266428	02/15/13 01:03	CB	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Client Sample ID: SUP 2
Date Collected: 02/08/13 12:27
Date Received: 02/08/13 16:00

Lab Sample ID: 660-52582-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	134430	02/08/13 12:27		TAL TAM

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Method Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL TAM
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL TAM
Field Sampling	Field Sampling	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13

TestAmerica Tampa

Certification Summary

Client: Hillsborough County Public Utilities Dep
Project/Site: Southeast Monitoring Wells

TestAmerica Job ID: 660-52560-1

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

660-52560

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

REP. OF SOLID WASTE DEPT.

1-30-13 12:00

LOCATION: TH-73 WACS#27754SAMPLE MATRIX: WATER, OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2 INCH:TOTAL DEPTH OF WELL: 43.40 Ft.DEPTH TO WATER: 32.11 Ft.LENGTH OF WATER COL: 11.29 Ft.VOLUME TO PURGE: 1.81 Gal.

PURGE STARTED:

DATE | TIME
2-7-13 11:49

PURGE RATE:

0.25 GPM.

PURGE ENDED:

DATE | TIME
2-7-13 12:01

ACT. VOL. PURGED:

3.50 GAL.

Draw Down:

35.40

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
JB	JL	11:57	24.79	222	4.85	0.78	3.02
JB	JL	11:59	24.79	222	4.85	0.74	3.33
JB	JL	12:01	24.79	221	4.84	0.69	4.80

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<u>1</u>	250 ml. PLASTIC	<u>2</u>	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
<u>1</u>	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4

TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens

None

COLLECTED

DATE | TIME

2-7-13 12:02

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0

YESSAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

REP. OF SOLID WASTE DEPT.

DATE | TIME

2-7-13 3:40

ACCEPTED BY:

REP. OF CONTRACT LAB.

2-7-13 3:40COMMENT'S: W01# 00734.9'c cu07

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

REP. OF SOLID WASTE DEPT. 1-30-13

LOCATION: TH-42 WACS# 823

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JF ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 164.00 Ft.

DEPTH TO WATER: 79.08 Ft.

LENGTH OF WATER COL: 84.92 Ft.

VOLUME TO PURGE: 13.59 Gal.

PURGE STARTED: 2-7-13 10:17

PURGE RATE: 0.50 GPM.

PURGE ENDED: 2-7-13 10:49

ACT. VOL. PURGED: 16.00 GAL.

Draw Down: 99.10

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AJ	JL	10:45	23.81	536	7.01	0.26
AJ	JL	10:47	23.82	536	7.01	0.22
AJ	JL	10:49	23.82	536	7.02	0.23

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml. GLASS		125 ml. GLASS	
/	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
/	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

2-7-13 10:50

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

REP. OF SOLID WASTE DEPT. 2-7-13 3:40

ACCEPTED BY:

REP. OF CONTRACT LAB. 2-7-13 3:40

COMMENT'S: WO# 0073

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: Am

REP. OF SOLID WASTE DEPT. 1-30-13 12:00

LOCATION: TH-40 WACS# 822

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ ke ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 165.90 Ft.

DEPTH TO WATER: 100.60 Ft.

LENGTH OF WATER COL: 65.30 Ft.

VOLUME TO PURGE: 10,45 Gal.

PURGE STARTED: _____

PURGE RATE: _____

PURGE ENDED: _____

ACT. VOL. PURGED: _____

Draw Down: _____

DATE | TIME

2-7-13 9:04

1.00 GPM.

DATE | TIME

2-7-13 9:19

15.00 GAL.

100.60

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>AB</u>	<u>JL</u>	<u>9:15</u>	<u>23.32</u>	<u>387</u>	<u>7.09</u>	<u>0.93</u>
<u>AB</u>	<u>JL</u>	<u>9:17</u>	<u>23.34</u>	<u>393</u>	<u>7.12</u>	<u>0.74</u>
<u>AB</u>	<u>JL</u>	<u>9:19</u>	<u>23.37</u>	<u>391</u>	<u>7.15</u>	<u>0.45</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<u>1</u>	250 ml. PLASTIC	<u>2</u>	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
<u>1</u>	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

2-7-13 9:20

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 7.15 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Am

REP. OF SOLID WASTE DEPT. 2-7-13 3:40

ACCEPTED BY: Carl M. Hult

REP. OF CONTRACT LAB. 2-7-13 3:40

COMMENT'S: WO# 0073

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: _____

DATE | TIME _____

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB

REP. OF SOLID WASTE DEPT. 1-30-13 | 12:00

LOCATION: TH-19 WACS# 821

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A.Balloon ☒ JL ☐ _____

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 153.60 Ft.

DEPTH TO WATER: 105.36 Ft.

LENGTH OF WATER COL: 48.24 Ft.

VOLUME TO PURGE: 7.72 Gal.

PURGE STARTED: 2-7-13 | 9:43

PURGE RATE: 1.00 GPM.

PURGE ENDED: 2-7-13 | 9:55

ACT. VOL. PURGED: 12.00 GAL.

Draw Down: 105.61

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
AB	JL	9:51	23.44	424	7.11	0.35	0.14
AB	JL	9:53	23.44	424	7.10	0.31	0.12
AB	JL	9:55	23.45	424	7.11	0.29	0.21

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
2-7-13 | 9:56

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB

REP. OF SOLID WASTE DEPT. 2-7-13 | 3:40

ACCEPTED BY: Carol McMillen

REP. OF CONTRACT LAB. 2-7-13 | 3:40

COMMENT'S: WO# 0073

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Bar REP. OF SOLID WASTE DEPT. 1-30-13 | 12:00

LOCATION: TH-72 WACS# 27753 SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A.Balloon ☒ OC ☐

WELL DIAMETER: 2 INCH:

TOTAL DEPTH OF WELL: 190.00 Ft.

DEPTH TO WATER: 105.35 Ft.

LENGTH OF WATER COL: 84.65 Ft.

VOLUME TO PURGE: 13.54 Gal.

PURGE STARTED: 2-7-13 | 12:09

PURGE RATE: 0.40 GPM.

PURGE ENDED: 2-7-13 | 12:47

ACT. VOL. PURGED: 15.20 GAL.

Draw Down: 105.35

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>B</u>	<u>7C</u>	<u>12:43</u>	<u>23.11</u>	<u>2207</u>	<u>6.50</u>	<u>0.42</u>
<u>B</u>	<u>7C</u>	<u>12:45</u>	<u>23.12</u>	<u>2207</u>	<u>6.50</u>	<u>0.45</u>
<u>B</u>	<u>7C</u>	<u>12:47</u>	<u>23.10</u>	<u>2206</u>	<u>6.50</u>	<u>0.60</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<u>12</u>	250 ml. PLASTIC	<u>2</u>	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
<u>1</u>	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens None

COLLECTED
DATE | TIME
2-7-13 | 12:48

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: _____ DATE | TIME

RELINQUISHED BY: Bar REP. OF SOLID WASTE DEPT. 2-7-13 | 3:40

ACCEPTED BY: Carol McHally REP. OF CONTRACT LAB. 2-7-13 | 3:40

COMMENT'S: W04 0073

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM
MONITORING WELLS BLANK, EQUIPMENT

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: REP. OF CONTRACT LAB.

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 2-30-13 12:00

LOCATION: BLANK, EQUIPMENT SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ J ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	3	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
2-7-13 8:55

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 7/135 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES
RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 2-7-13 3:40
ACCEPTED BY: Carol McHally REP. OF CONTRACT LAB. 2-7-13 3:40

COMMENT'S: wo # 0073

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM
MONITORING WELLS DUPLICATE SAMPLE

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB

REP. OF SOLID WASTE DEPT. 1-30-13 12:00

LOCATION: DUPLICATE

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION : ☒ A. Balloon ☒ JC ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

2-7-13

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 2/13/5 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB

REP. OF SOLID WASTE DEPT. 2-7-13 3:40

ACCEPTED BY: Carol McHally

REP. OF CONTRACT LAB. 2-7-13 3:40

COMMENT'S: _____

660-52582

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: AzeREP. OF SOLID WASTE DEPT. 1-30-13/12:00LOCATION: TH-58 WACS# 1571SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 32.92 Ft.DEPTH TO WATER: 28.37 Ft.LENGTH OF WATER COL: 4.55 Ft.VOLUME TO PURGE: 0.73 Gal.PURGE STARTED: 2-8-13 11:09PURGE RATE: 0.10 GPM.

DATE | TIME

PURGE ENDED: 2-8-13 11:21ACT. VOL. PURGED: 1.20 GAL.Draw Down: 28.80

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>B</u> <u>JL</u>	<u>11:17</u>	<u>24.04</u>	<u>479</u>	<u>5.91</u>	<u>7.66</u>	<u>4.77</u> =
<u>B</u> <u>JL</u>	<u>11:19</u>	<u>24.00</u>	<u>462</u>	<u>5.94</u>	<u>7.41</u>	<u>2.54</u>
<u>B</u> <u>JL</u>	<u>11:21</u>	<u>25.99</u>	<u>449</u>	<u>5.94</u>	<u>7.65</u>	<u>3.24</u>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<u>1</u>	250 ml. PLASTIC	<u>2</u>	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
<u>1</u>	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

2-8-13 11:22

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 cABOVE LISTED SAMPLES: Aze

RELINQUISHED BY: _____

REP. OF SOLID WASTE DEPT. 2-8-13 4:00ACCEPTED BY: Carol McVertyREP. OF CONTRACT LAB. 2-8-13 4:00COMMENT'S: 5.5' c u107

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS: _____ DATE | TIME _____

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 1-30-13 12:00

LOCATION: SUP 1 WACS# 27755 SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JL ☐ _____

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 2.8.13 TIME 12:36

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

	BY	TIME	TEMP	COND	PH	DO	TURB
13	JL	12:51	24.51	365	7.27	0.09	0.00 =
13	JL	12:53	24.51	365	7.27	0.08	6.11
13	JL	12:55	24.54	365	7.27	0.07	0.00

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
2-8-13

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: _____ DATE | TIME _____

RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 2-8-13 4:00

ACCEPTED BY: Carol McHulley REP. OF CONTRACT LAB. 2-8-13 4:00

COMMENT'S: _____

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: B. J. E. REP. OF SOLID WASTE DEPT. 2-8-13 12:00LOCATION: TH-57 WACS# 1570SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JE ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 26.83 Ft.PURGE STARTED: 2-8-13 9:05DEPTH TO WATER: 19.34 Ft.PURGE RATE: 0.20 GPM.LENGTH OF WATER COL: 7.49 Ft.

DATE | TIME

VOLUME TO PURGE: 1.20 Gal.PURGE ENDED: 2-8-13 9:15ACT. VOL. PURGED: 2.00 GAL.Draw Down: 20.81

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
B. J. E.	9:11	26.54	184	4.91	0.35	0.92 =
B. J. E.	9:13	26.55	185	4.94	0.29	0.83
B. J. E.	9:15	26.55	184	4.95	0.24	0.51

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

2-8-13 9:16

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: B. J. E. REP. OF SOLID WASTE DEPT. 2-8-13 4:00ACCEPTED BY: Christine Hult REP. OF CONTRACT LAB. 2-8-13 4:00

COMMENT'S: _____

HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AJ REP. OF SOLID WASTE DEPT. 2-8-13 12:00

LOCATION: TH-74 WACS# 28307

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JRE ☐

WELL DIAMETER: 2 INCH:

TOTAL DEPTH OF WELL: 17.00 Ft.

DEPTH TO WATER: 10.13 Ft.

LENGTH OF WATER COL: 6.87 Ft.

VOLUME TO PURGE: 1.10 Gal.

PURGE STARTED:

DATE | TIME
2-8-13 9:30

PURGE RATE:

0.15 GPM.

PURGE ENDED:

DATE | TIME
2-8-13 9:42

ACT. VOL. PURGED:

1.80 GAL.

Draw Down:

10.96

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AJ	JL 9:38	21.45	343	0.39	0.37	2.74 =
AJ	JL 9:40	21.44	343	0.39	0.39	2.09
AJ	JL 9:42	21.46	344	0.34	0.34	1.95

5.11, 5.42, 5.43

SAMPLE CONTAINERS 5.42

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
1	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

2-8-13 9:43

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AJ

REP. OF SOLID WASTE DEPT. 2-8-13 4:00

ACCEPTED BY: Carol M. Hult

REP. OF CONTRACT LAB. 2-8-13 4:00

COMMENTS: _____

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS: _____

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 1-30-13

LOCATION: TH-30 WACS# 1065 SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐

WELL DIAMETER: 2.00 INCH:
TOTAL DEPTH OF WELL: 46.19 Ft.
DEPTH TO WATER: 8.21 Ft.
LENGTH OF WATER COL: 38.18 Ft.
VOLUME TO PURGE: 6.11 Gal.

PURGE STARTED: 2-8-13 10:32
PURGE RATE: 0.25 GPM.
DATE | TIME
PURGE ENDED: 2-8-13 10:51
ACT. VOL. PURGED: 4.75 GAL.
Draw Down: 24.32

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:47	23.94	564	4.40	0.14	2.11
AB JC	10:49	23.95	564	4.39	0.14	1.16
AB JC	10:51	23.94	548	4.39	0.13	1.39

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml. GLASS		125 ml. GLASS	
1	250 ml. PLASTIC	2	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
1	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
2-8-13 10:52

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: _____
RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 2-8-13 4:00
ACCEPTED BY: Carol McHally REP. OF CONTRACT LAB. 2-8-13 4:00

COMMENT'S: _____

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: As REP. OF SOLID WASTE DEPT. 2-8-13 12:00

LOCATION: TH-28A WACS# 19862 SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JCL ☐ _____

WELL DIAMETER: 2.0 INCH: _____
 TOTAL DEPTH OF WELL: 34.30 Ft. PURGE STARTED: 2-8-13 11:39
 DEPTH TO WATER: 28.45 Ft. PURGE RATE: 0.10 GPM.
 LENGTH OF WATER COL: 5.65 Ft. DATE: _____ TIME: _____
 VOLUME TO PURGE: 0.90 Gal. PURGE ENDED: 2-8-13 11:52
 ACT. VOL. PURGED: 1.30 GAL.
 Draw Down: 29.16

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
B JC	11:48	26.95	307	5.05	0.55	2.59
B JL	11:50	26.95	307	5.04	0.48	2.17
B JL	11:52	26.94	304	5.03	0.43	1.71

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<u>1</u>	250 ml. PLASTIC	<u>2</u>	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
<u>1</u>	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
 DATE: 2-8-13 TIME: 11:53

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES: _____ DATE: _____ TIME: _____
 RELINQUISHED BY: As REP. OF SOLID WASTE DEPT. 2-8-13 4:00
 ACCEPTED BY: Carol McMurtry REP. OF CONTRACT LAB. 2-8-13 4:00

COMMENT'S: _____

**HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM**

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

Asu

REP. OF SOLID WASTE DEPT.

1-30-13 12:00

LOCATION: SUP 2 WACS# 27756

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ JC ☐

WELL VOLUME TO PURGE: 15 MIN:

PURGE STARTED: DATE 2.8.13 TIME 12:07

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<i>Asu</i>	<i>JC</i>	<i>12:22</i>	<i>24.57</i>	<i>384</i>	<i>7.21</i>	<i>0.08</i>
<i>Asu</i>	<i>JC</i>	<i>12:24</i>	<i>24.54</i>	<i>385</i>	<i>7.21</i>	<i>0.08</i>
<i>Asu</i>	<i>JC</i>	<i>12:24</i>	<i>24.61</i>	<i>385</i>	<i>7.22</i>	<i>0.07</i>

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml GLASS		125 ml GLASS	
<i>1</i>	250 ml. PLASTIC	<i>2</i>	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
<i>1</i>	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

2-8-13 12:27

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 YES

SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

Asu
Carol McHally

REP. OF SOLID WASTE DEPT.

DATE | TIME

2-8-13 4:00

ACCEPTED BY:

REP. OF CONTRACT LAB.

2-8-13 4:00

COMMENT'S:

Client Information (Sub Contract Lab) Client Contact: _____ Shipping/Receiving: _____ Company: _____ TestAmerica Laboratories, Inc. Address: _____ 5102 LaRoche Avenue, City: Savannah State/Zip: GA, 31404 Phone: 912-354-7858(Tel) 912-352-0165(Fax) Email: _____		Due Date Requested: 2/14/2013 TAT Requested (days): _____ PO #: _____ WO #: _____ Project #: 66003915 SSOW#: _____ Project Name: Southeast Monitoring Wells Site: Southeast Landfill		Lab PM: Robertson, Nancy E-Mail: nancy.robertson@testamericainc.com Carrier Tracking No(s): _____ Lab # 660-52560-1 Job # 660-52560-1					
Sample Identification - Client ID (Lab ID)		Analysis Requested							
Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/dirt)	Field Filtered Sample (Yes or No)	350.1/ Nitrogen, Ammonia	300.0, 28D/ Chloride	Total Number of Containers	Special Instructions/Note:
TH-73 (660-52560-1)	2/7/13	12:02 Eastern		Water		X	X	2	
TH-42 (660-52560-2)	2/7/13	10:50 Eastern		Water		X	X	2	
TH-40 (660-52560-3)	2/7/13	09:20 Eastern		Water		X	X	2	
TH-19 (660-52560-4)	2/7/13	09:56 Eastern		Water		X	X	2	
TH-72 (660-52560-5)	2/7/13	12:48 Eastern		Water		X	X	2	
BLANK EQUIPMENT (660-52560-6)	2/7/13	08:55 Eastern		Water		X	X	2	
DUPLICATE NOT BLANK (660-52560-7)	2/7/13	Eastern		Water		X	X	2	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date/Time: 2/7/13 10:55 Relinquished by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____									
Custody Seals Intact: _____ A Yes A No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 2.8°C									

Chain of Custody Record

Client Information (Sub Contract Lab) Company: TestAmerica Laboratories, Inc. Address: 5102 LaRoche Avenue, City: Savannah State, Zip: GA, 31404 Phone: 912-354-7858 (Tel) 912-352-0165 (Fax) Email: Project Name: SELF MWs, SS, Private Wells, NPDES Site: Southeast Landfill		Sampler: Lab PM: Robertson, Nancy Phone: E-Mail: nancy.robertson@testamericainc.com		Carrier Tracking No(s): Lab No: 660-52811.1 Page: Page 1 of 1 Job #: 660-52582-1							
Analysis Requested Due Date Requested: 2/15/2013 TAT Requested (days): PO #: WO #: Project #: 66003915 SSOW#:		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=volatile)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300.0, 28D Chloride	350.1/ Nitrogen, Ammonia	Total Number of Containers	Special Instructions/Note:	
TH-58 (660-52582-1)	2/8/13	11:22 Eastern	Water	Water			X	X	2		
SUP 1 (660-52582-2)	2/8/13	09:16 Eastern	Water	Water			X	X	2		
TH-57 (660-52582-3)	2/8/13	10:13 Eastern	Water	Water			X	X	2		
TH-75 (660-52582-4)	2/8/13	09:43 Eastern	Water	Water			X	X	2		
TH-74 (660-52582-5)	2/8/13	10:52 Eastern	Water	Water			X	X	2		
TH-30 (660-52582-6)	2/8/13	11:53 Eastern	Water	Water			X	X	2		
TH-28A (660-52582-7)	2/8/13	12:27 Eastern	Water	Water			X	X	2		
SUP 2 (660-52582-8)	2/8/13		Water	Water			X	X	2		
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months											
Special Instructions/QC Requirements:											
Method of Shipment:											
Date/Time: 2/8/13 1730		Date/Time: 2/8/13 0805		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No		3.1°C		3.1°C		3.1°C		3.1°C		3.1°C	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52560-1

Login Number: 52560

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52560-1

Login Number: 52560

List Source: TestAmerica Savannah

List Number: 1

List Creation: 02/09/13 09:51 AM

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52560-1

Login Number: 52582

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52560-1

Login Number: 52582

List Source: TestAmerica Savannah

List Number: 1

List Creation: 02/09/13 09:54 AM

Creator: Conner, Keaton

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-52560-1

Login Number: 52582

List Number: 2

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

List Creation: 02/13/13 07:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	