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December 11, 2012

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. 26**

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. The monthly sampling event was conducted on October 4-5, 2012, 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 4.32 to 5.61 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 three (3) of the four (4) upper Floridan groundwater monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and consistent with historical data for the site. The pH in upper Floridan groundwater monitoring well TH-72 was observed at 6.43, slightly below the SDWS.

### **Turbidity**

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. Values ranged from 2.43 to 10.7 Nephelometric Turbidity Units (NTU) in the surficial aquifer wells, and from 0.12 to 17.8 NTU in the upper Floridan wells. Due to elevated turbidity observed in P-18S, the County collected a representative groundwater sample from the surficial aquifer groundwater monitoring well, TH-30.

### **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 211 to 645 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 1,654 umhos/cm. The conductivity observed in this well is likely attributable to the downward migration of groundwater through the throat of the sinkhole and the fluids associated with the grouting materials introduced to stabilize the area. It should be noted that TH-72 is in close proximity to the sinkhole and changes in water quality within this well were not unexpected.

### **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 1,500 mg/l, indicating impact to the upper Floridan aquifer immediately down gradient of the sinkhole. All the other upper Floridan wells were observed well below the SDWS for TDS.

### **Chloride**

Chloride values in the surficial aquifer groundwater monitoring wells ranged in concentration from 43 to 130 mg/l, which are all below the SDWS of 250 mg/l. The chloride value

observed in TH-72 was 650 mg/l, which is an increase from the previous month's result of 570 mg/l. Chloride values are historically very low in the upper Floridan aquifer monitoring wells and limited use potable supply wells, and the other wells all continue to exhibit very low chloride. The impacts to TH-72 are likely attributable to the sinkhole and grouting materials.

### **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 have recently been observed in TH-58, the arsenic values have 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 naturally occurring within the soils surrounding the well. Arsenic is likely being mobilized in the anaerobic environment below the lined landfill. The low arsenic levels observed in TH-74 and TH-75 are likely a result of these processes as well, as they are located down gradient of TH-58, just beyond 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. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are consistent with background water quality, 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-42, TH-72, and SUP-1 which exhibited concentrations of 0.64 mg/l, 1.9 mg/l, and 0.47 mg/l, respectively. The concentration observed in TH-72 is likely attributable to the waste in the sinkhole and fluids associated with the grouting materials, and this observation is consistent with the other parameters exhibiting elevated values.

### **Total Ammonia**

Ammonia concentrations in surficial aquifer well TH-74 was observed at 3.5 mg/l, which is slightly above the Groundwater Cleanup Target Level (GCTL) of 2.8 mg/l. The location of TH-74 is immediately west/northwest of the sinkhole. The upper Floridan well TH-72 also exhibited ammonia above the GCTL at a concentration of 25 mg/l, which continues to indicate significant increases over the last 3 months. The source of the ammonia observed in the groundwater in the immediate vicinity of the sinkhole is likely attributable to waste that entered 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 October 3, 2102. No significant changes were noted in October 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 October 2012 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 a result of the waste within the sinkhole and the fluids introduced during the grouting activities conducted as part of the initial remediation activities to stabilize the subsurface in the area.

Overall, the water quality observations continue to indicate impacts in close proximity to the sinkhole. The impacts observed in the upper Floridan aquifer monitoring well, TH-72, continue to exhibit elevated concentrations of conductivity, TDS, chloride, ammonia, and iron. The changes in water quality were not unexpected in the upper Floridan monitoring well immediately adjacent to the sinkhole.

Several wells currently included in the IAMP have consistently exhibited good water quality with no apparent impact from the sinkhole, and based on their location and nearly two (2) years of data, these wells do not appear to provide any value to the program. These wells include three (3) upper Floridan (limestone) aquifer monitoring wells TH-19, TH-40, and TH-42, the two (2) limited use potable supply wells SUP-1 and SUP-2, and two (2) of the surficial aquifer monitoring wells TH-30, and TH-57.

### **Recommendations**

The County will continue to evaluate water quality in the IAMP network of monitoring wells on the current monthly schedule. Specific attention to the changes in the upper Floridan aquifer well TH-72 will be a primary focus in the future sampling events.

Based on the water quality observed in the seven (7) wells listed above, the County recommends discontinuing the sampling of those wells and reducing the number of data points included in the IAMP from thirteen (13) to six (6). The data point P-18S which is sampled instead of TH-30 if turbidity can be reduced to below 20 NTU would also be eliminated from the IAMP. This overall reduction would allow the sampling to be completed in one day and continue to adequately evaluate the water quality changes in close proximity to the sinkhole.

Mr. John Morris, P.G.  
December 11, 2012  
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Enclosed for your review please find a site location map depicting the on-site wells sampled, the water quality data summary table for the October 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 September 2012, and the complete analytical data report from our contracted laboratory, Test America, Inc.

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.

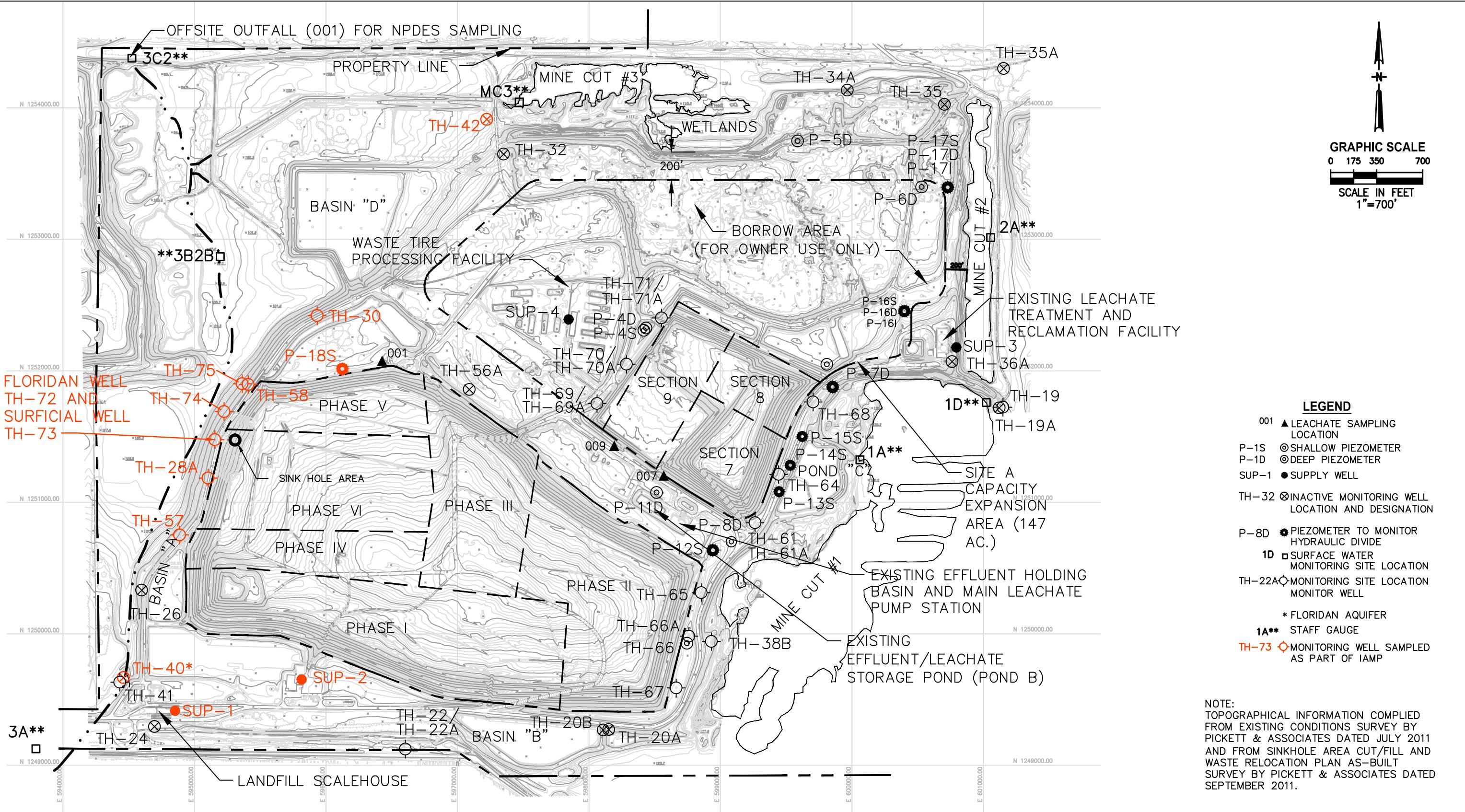
Respectfully submitted,

*David S. Adams* 12/11/12

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



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SHEET TITLE

## MONITORING WELLS, PIEZOMETERS, AND SURFACE WATER MONITORING LOCATIONS HILLSBOROUGH COUNTY, FLORIDA

PROJECT NUMBER
SCALE
DATE
DECEMBER 2011

REFERENCE SHEET
DRAWING NAME
EXHIBIT NUMBER
1

**Hillsborough County Southeast Landfill**  
**Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells**  
**October 4-5, 2012**

GENERAL (mg/l) PARAMETERS	Surficial Aquifer Wells							Upper Floridan Aquifer Wells						(MCL) STANDARD
	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	
conductivity (umhos/cm) (field)	234	410	211	645	222	369	346	363	328	366	1654	243	261	NS
dissolved oxygen (mg/l) (field)	0.31	0.09	0.17	0.28	0.18	0.25	0.15	0.22	0.25	0.15	0.60	0.06	0.08	NS
pH (field)	5.08	4.32	4.93	5.61	4.86	5.36	5.35	7.09	7.29	7.03	6.43	7.29	7.26	(6.5 - 8.5)**
temperature (°C) (field)	27.36	23.60	26.91	26.51	24.68	24.12	24.54	23.48	23.50	23.93	23.22	24.45	24.82	NS
turbidity (NTU) (field)	10.7	2.67	2.43	2.57	7.56	3.98	6.73	0.39	0.19	17.8	0.46	0.17	0.12	NS
total dissolved solids (mg/l)	130	220	110	410	130	260	240	240	200	270	1500	210	220	500**
chloride (mg/l)	43	120	37	130	43	76	51	8.1	8.2	17	650	9.4	11	250**
ammonia nitrogen (mg/l as N)	2.4	2.7	1.5	1.2	1.2	3.5	2.5	0.39 J3	0.46	0.35	25	0.15	0.15	2.8***
<hr/>														
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Metals: (mg/l)	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	(MCL) STANDARD
arsenic	0.004 u	0.004 u	0.004 u	0.025	0.004 u	0.00557	0.00847	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.01*
iron	3.4	0.42	0.63	3.6	3.4	19	9.2	0.05 u	0.05 u	0.64 J3	1.9	0.47	0.05 u	0.3**
sodium	18	27	13	41	16	22	15	13	16	15	210	8.3	8.4	160*
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Note: Ref. Groundwater Guidance Concentrations, FDEP 2012

MCL=MAXIMUM CONTAMINANT LEVEL

BDL=BELOW DETECTION LIMIT

NTU=NEPHELOMETRIC TURBIDITY UNITS

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

u = parameter was analyzed but not detected.

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

\*=DENOTES PRIMARY DRINKING WATER STANDARD

\*\*=DENOTES SECONDARY DRINKING WATER STANDARD

\*\*\*=DENOTES FLORIDA GUIDANCE CONCENTRATION

5.08

EXCEEDS STANDARD

ug/l=MICROGRAMS PER LITER

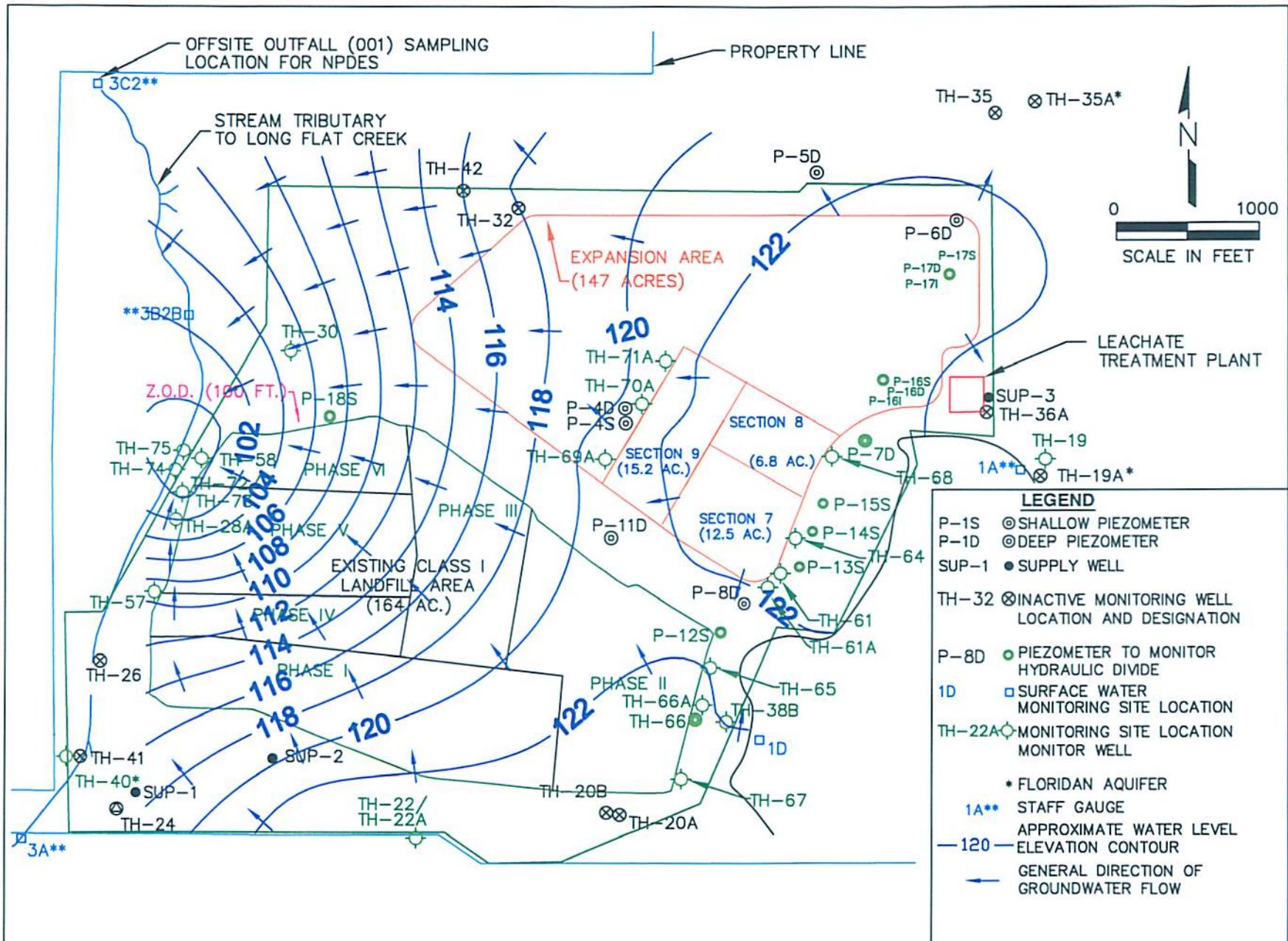
mg/l=MILLIGRAMS PER LITER

NS=NO STANDARD

**GROUNDWATER AND SURFACE WATER ELEVATIONS FOR SOUTHEAST LANDFILL**

**October 3, 2012**

<b>Measuring Point I.D.</b>	<b>T.O.C. Elevations (NGVD)</b>	<b>10/03/2012 W.L. B.T.O.C.</b>	<b>W.L. (NGVD)</b>	<b>Time</b>
P-4D	140.78	21.00	119.78	12:27 PM
P-4S	140.95	9.50	131.45	12:28 PM
P-5D	151.94	Dry	Dry	11:23 AM
P-6D-A	148.01	23.85	124.16	11:16 AM
P-7D	138.92	15.97	122.95	10:27 AM
P-8D	138.34	17.00	121.34	10:10 AM
P-11D	138.02	16.18	121.84	12:34 PM
P-12S	134.97	13.01	121.96	10:08 AM
P-13S	140.21	17.66	122.55	10:15 AM
P-14S	138.56	15.85	122.71	10:18 AM
P-15S	139.19	16.45	122.74	10:20 AM
P-16S	143.38	16.36	127.02	10:35 AM
P-16I	144.15	22.62	121.53	10:34 AM
P-16D	143.84	22.34	121.50	10:33 AM
P-17S	137.35	10.89	126.46	11:11 AM
P-17I	137.32	14.12	123.20	11:12 AM
P-17D	137.22	14.40	122.82	11:13 AM
P-18S	129.86	17.69	112.17	11:44 AM
P-19	133.36	8.79	124.57	11:19 AM
P-20	132.38	10.80	121.58	10:38 AM
P-21	122.79	1.65	121.14	10:46 AM
P-22	128.35	7.15	121.20	10:48 AM
P-23	143.13	21.77	121.36	10:42 AM
TH-19*	130.27	89.85	40.42	11:00 AM
TH-20A	131.86	8.84	123.02	9:55 AM
TH-20B	132.57	9.78	122.79	9:54 AM
TH-22	128.82	4.42	124.40	9:46 AM
TH-22A	129.27	5.05	124.22	9:45 AM
TH-24A	128.23	4.05	124.18	9:50 AM
TH-28A	131.10	28.00	103.10	12:10 PM
TH-30	128.88	23.71	105.17	12:02 PM
TH-32	129.90	12.04	117.86	11:40 AM
TH-35	145.98	26.82	119.16	11:07 AM
TH-36A	152.70	32.02	120.68	10:30 AM
TH-38A	130.68	9.39	121.29	10:03 AM
TH-38B	131.81	10.14	121.67	10:02 AM
TH-40*	124.99	84.99	40.00	9:34 AM
TH-41*	125.00	89.24	35.76	9:36 AM
TH-42*	116.74	67.42	49.32	11:38 AM
TH-57	128.36	18.45	109.91	12:13 PM
TH-58	127.88	27.66	100.22	12:05 PM
TH-61	138.73	16.20	122.53	10:12 AM
TH-61A	139.45	16.35	123.10	10:13 AM
TH-64	139.64	16.17	123.47	10:16 AM
TH-65	135.40	13.45	121.95	10:05 AM
TH-66	130.58	8.10	122.48	10:00 AM
TH-66A	130.66	8.55	122.11	9:59 AM
TH-67	129.51	5.44	124.07	9:57 AM
TH-68	140.01	17.18	122.83	10:23 AM
TH-69A	144.97	24.35	120.62	12:32 PM
TH-70A	146.63	24.87	121.76	12:29 PM
TH-71A	146.95	25.31	121.64	10:52 AM
TH-72	130.96	90.19	40.77	12:08 PM
TH-73	131.07	31.46	99.61	12:07 PM
TH-74	109.08	9.53	99.55	12:17 PM
TH-75	106.92	7.55	99.37	12:19 PM
SW-3A	3.0'=125.53'	0.72	123.25	9:30 AM
SW-3B2B	3.0'=97.97'	1.80	96.77	11:51 AM
SW-3C2	6.0'=92.33'	1.50	87.73	11:56 AM
Mine Cut #1	4.0'=122.14'	3.22	121.36	10:23 AM
Mine Cut #2	6.0'=123.47'	3.22	120.69	11:03 AM
Mine Cut #3	4.0'=112.27'	2.22	110.49	11:36 AM
Mine Cut #4	5.0'=97.54'	1.64	94.18	11:32 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 – October 3, 2012

**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

ND = NO DATA (Not analyzed)

u = parameter was analyzed but not detected

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

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

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.

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	106.11	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 j3	0.45	0.004 u	0.05 u	16

ND = NO DATA (Not analyzed)

u = parameter was analyzed but not detected

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-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

ND = NO DATA (Not analyzed)

u = parameter was analyzed but not detected

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

25

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	5.06	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

ND = NO DATA (Not analyzed)

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	<b>5.76</b>	26	0.9	490	190	0.66	<b>0.027</b>	4.7	38
12/28/2010	28.34	99.54	570	0.42	<b>5.66</b>	26	0.9	420	130	0.75	ND	ND	30
01/04/2011	28.36	99.52	619	0.44	<b>5.71</b>	25.81	0.6	440	140	0.64	ND	ND	29
01/13/2011	28.31	99.57	736	0.46	<b>5.78</b>	25.58	0.2	390	130	0.61	<b>0.031</b>	5	26
01/20/2011	28.22	99.66	751	0.34	<b>5.74</b>	25.95	0.2	380	120	0.74	<b>0.024</b>	4.9	23
01/27/2011	28.11	99.77	693	0.64	<b>5.76</b>	25.87	0.4	380	97	0.68	<b>0.026</b>	5	22
02/03/2011	28.05	99.83	740	0.86	<b>5.73</b>	25.71	2.2	380	110	0.61	<b>0.027</b>	4.4	23
02/10/2011	28.02	99.86	578	0.56	<b>5.74</b>	25.58	1.3	350	76	0.92	<b>0.026</b>	4.9	20
02/14/2011	28.05	99.83	521	0.58	<b>5.72</b>	25.7	0.6	340	85	0.91	<b>0.027</b>	4.7	20
02/24/2011	28.09	99.79	692	0.59	<b>5.79</b>	25.76	0.5	380	92	0.95	<b>0.025</b>	4	21
03/03/2011	28.21	99.67	591	0.42	<b>5.68</b>	25.6	0.6	300	76	0.61	<b>0.024</b>	4.1	19
03/10/2011	28.24	99.64	524	0.47	<b>5.76</b>	25.38	0.6	280	63	0.68	<b>0.026</b>	4	17
03/17/2011	28.20	99.68	337	0.33	<b>5.69</b>	25.47	0.4	280	65	0.3	<b>0.026</b>	4.1	17
03/24/2011	28.28	99.60	440	0.42	<b>5.72</b>	25.53	0.2	270	57	0.93	<b>0.024</b>	4.3	16
04/01/2011	28.10	99.78	504	0.37	<b>5.8</b>	25.23	0.8	270	56	0.73	<b>0.024</b>	4.2	17
04/08/2011	27.59	100.29	459	0.28	<b>5.73</b>	25.36	0.9	250	57	0.82	<b>0.026</b>	4.6	16
05/05/2011	28.20	99.68	1005	0.36	<b>5.65</b>	25.06	0.9	580	270	2.8	<b>0.027</b>	8.7	45
06/08/2011	28.72	99.16	1210	1.28	<b>5.76</b>	26.69	10.3	800	290	1.2	<b>0.02</b>	7.7	63
07/07/2011	27.99	99.89	998	0.75	<b>5.7</b>	25.62	4.49	560	210	0.94	<b>0.025</b>	5.8	47
08/04/2011	27.61	100.27	2167	0.39	<b>5.6</b>	26.1	2.1	1700	660	1.6	<b>0.028</b>	16	150
09/08/2011	27.42	100.46	1239	0.9	<b>5.7</b>	26.18	3.6	1200	570	0.75	<b>0.026</b>	8.1	120
10/04/2011	27.77	100.11	1416	0.67	<b>5.72</b>	26.01	5.2	1100	400	0.45	<b>0.028</b>	4.5	96
11/03/2011	27.91	99.97	1574	0.87	<b>5.84</b>	26.72	8.36	920	340	0.73	<b>0.026</b>	3.7	81
12/08/2011	28.26	99.62	1307	0.99	<b>5.86</b>	24.98	11.78	570	260	0.77	<b>0.026</b>	3.6	65
01/05/2012	28.40	99.48	1032	1.45	<b>5.9</b>	24.58	8.8	610	230	0.57	<b>0.029</b>	3.5	58
02/10/2012	28.42	99.46	880	0.89	<b>5.8</b>	25.26	5.17	510	160	0.58	<b>0.025</b>	3.2	41
03/07/2012	28.55	99.33	992	2.01	<b>5.94</b>	25.1	3.6	420	160	0.42	<b>0.026</b>	2.8	45
04/05/2012	28.66	99.22	606	0.4	<b>5.7</b>	25.63	0	270	81	0.9	<b>0.026</b>	4	26
05/03/2012	28.70	99.18	540	0.43	<b>5.66</b>	25.84	0.69	250	65	1.5	<b>0.025</b>	4.1	24
06/07/2012	28.60	99.28	379	0.63	<b>5.68</b>	25.53	1.6	200	36	1.6	<b>0.026</b>	3.8	17
07/05/2012	27.23	100.65	527	0.62	<b>5.72</b>	26.35	2.34	310	87	1.4	<b>0.024</b>	3.4	30
08/03/2012	27.93	99.95	445	0.74	<b>5.69</b>	26.71	2.24	480	150	2.2	<b>0.025</b>	4.1	50
09/06/2012	27.24	99.83	696	0.31	<b>5.6</b>	25.02	0.83	390	130	1.5	<b>0.028</b>	3.5	36

ND = NO DATA (Not analyzed)

**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 i3	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

u = parameter was analyzed but not detected

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

i3 = 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

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

ND = NO DATA (Not analyzed)

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	<b>5.65</b>	23.63	11.6	220	49	1.4	0.0085 i	11	14
12/08/2011	7.90	99.02	301	0.46	<b>5.57</b>	22.9	20.1	150	23	1.1	<b>0.011</b>	8.9	11
01/05/2012	8.01	98.91	300	0.92	<b>5.58</b>	21.69	18.9	180	25	1.1	0.0071 i	8.6	10
02/10/2012	8.00	98.92	422	0.51	<b>5.48</b>	21.5	17.9	280	81	1.1	0.0072 i	12	20
03/07/2012	8.14	98.78	495	0.26	<b>5.39</b>	21.5	19.6	220	79	0.96	0.0079 i	13	22
04/05/2012	8.15	98.77	584	0.33	<b>5.37</b>	21.76	4.94	300	130	1.3	0.0063 i	16	26
05/03/2012	8.27	98.65	588	0.28	<b>5.32</b>	22.06	0.0	350	120	1.9	0.0078 i	16	33
06/07/2012	8.14	98.78	702	0.39	<b>5.61</b>	22.87	5.69	480	140	1.5	0.0095 i	10	40
07/05/2012	7.36	99.56	344	0.22	<b>5.35</b>	23.52	6.48	180	37	2	0.01	9.8	15
08/03/2012	7.80	99.12	241	0.28	<b>5.28</b>	24.07	4.21	190	25	1.8	0.008 i	8.3	14
09/06/2012	7.42	99.50	360	0.18	<b>5.41</b>	24.5	4.41	200	40	2	0.01	9.1	15

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

**5.65** EXCEEDS STANDARD

**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

ND = NO DATA (Not analyzed)

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

ND = NO DATA (Not analyzed)

u = parameter was analyzed but not detected

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa

6712 Benjamin Road

Suite 100

Tampa, FL 33634

Tel: (813)885-7427

TestAmerica Job ID: 660-50432-1

Client Project/Site: Southeast Landfill

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:

10/24/2012 11:25:06 AM

Nancy Robertson

Project Manager II

nancy.robertson@testamericainc.com

### LINKS

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The  
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[www.testamericainc.com](http://www.testamericainc.com)

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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## Definitions/Glossary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### 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.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

#### General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
L	Off-scale high. Actual value is known to be greater than the value given.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
xx	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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
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
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

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**Job ID:** 660-50432-1

**Laboratory:** TestAmerica Tampa

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**Narrative**

Job Narrative  
660-50432-1

**Comments**

No additional comments.

**Receipt**

The samples were received on 10/4/2012 2:30 PM and 10/5/2012 1:48 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 4.7° C.

**Metals**

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130221 were outside control limits for Iron. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

**General Chemistry**

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130234 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike duplicate (MSD) recovery for batch 130154 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

4

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Client Sample ID: BLANK EQUIPMENT

Lab Sample ID: 660-50432-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	1.4		0.50	0.31	mg/L	1		6010B	Total Recoverable

5

### Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-50432-2

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	8.1		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.37		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA

### Client Sample ID: TH-75

Lab Sample ID: 660-50432-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4 I		10	4.0	ug/L	1		6010B	Total Recoverable
Iron	9200		200	50	ug/L	1		6010B	Total Recoverable
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	51		1.0	0.40	mg/L	2		300.0	Total/NA
Ammonia as N	2.5		0.12	0.060	mg/L	2		350.1	Total/NA
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.35			SU		1		Field Sampling	Total/NA
Field Temperature	24.54			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.15			mg/L		1		Field Sampling	Total/NA
Specific Conductance	346			umhos/cm		1		Field Sampling	Total/NA
Turbidity	6.73			NTU		1		Field Sampling	Total/NA

### Client Sample ID: TH-74

Lab Sample ID: 660-50432-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5 I		10	4.0	ug/L	1		6010B	Total Recoverable
Iron	19000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	22		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	76		2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	3.5		0.12	0.060	mg/L	2		350.1	Total/NA
Total Dissolved Solids	260		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.36			SU		1		Field Sampling	Total/NA
Field Temperature	24.12			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25			mg/L		1		Field Sampling	Total/NA
Specific Conductance	369			umhos/cm		1		Field Sampling	Total/NA
Turbidity	3.98			NTU		1		Field Sampling	Total/NA

### Client Sample ID: TH-57

Lab Sample ID: 660-50432-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	630		200	50	ug/L	1		6010B	Total Recoverable
Sodium	13		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	37		0.50	0.20	mg/L	1		300.0	Total/NA

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Client Sample ID: TH-57 (Continued)

Lab Sample ID: 660-50432-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	1.5		0.060	0.030	mg/L	1	350.1		Total/NA
Total Dissolved Solids	110		5.0	5.0	mg/L	1	SM 2540C		Total/NA
Field pH	4.93			SU		1	Field Sampling		Total/NA
Field Temperature	26.91			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.17			mg/L		1	Field Sampling		Total/NA
Specific Conductance	211			umhos/cm		1	Field Sampling		Total/NA
Turbidity	2.43			NTU		1	Field Sampling		Total/NA

### Client Sample ID: TH-28A

Lab Sample ID: 660-50432-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3400		200	50	ug/L	1	6010B		Total
Sodium	18		0.50	0.31	mg/L	1	6010B		Recoverable
Chloride	43		2.0	0.80	mg/L	4	300.0		Total/NA
Ammonia as N	2.4		0.12	0.060	mg/L	2	350.1		Total/NA
Total Dissolved Solids	130		5.0	5.0	mg/L	1	SM 2540C		Total/NA
Field pH	5.08			SU		1	Field Sampling		Total/NA
Field Temperature	27.36			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.31			mg/L		1	Field Sampling		Total/NA
Specific Conductance	234			umhos/cm		1	Field Sampling		Total/NA
Turbidity	10.7			NTU		1	Field Sampling		Total/NA

### Client Sample ID: TH-58

Lab Sample ID: 660-50432-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		10	4.0	ug/L	1	6010B		Total
Iron	3600		200	50	ug/L	1	6010B		Recoverable
Sodium	41		0.50	0.31	mg/L	1	6010B		Total
Chloride	130		5.0	2.0	mg/L	10	300.0		Recoverable
Ammonia as N	1.2		0.060	0.030	mg/L	1	350.1		Total/NA
Total Dissolved Solids	410		10	10	mg/L	1	SM 2540C		Total/NA
Field pH	5.61			SU		1	Field Sampling		Total/NA
Field Temperature	26.51			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.28			mg/L		1	Field Sampling		Total/NA
Specific Conductance	645			umhos/cm		1	Field Sampling		Total/NA
Turbidity	2.57			NTU		1	Field Sampling		Total/NA

### Client Sample ID: TH-30

Lab Sample ID: 660-50432-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	420		200	50	ug/L	1	6010B		Total
Sodium	27		0.50	0.31	mg/L	1	6010B		Recoverable
Chloride	120		2.5	1.0	mg/L	5	300.0		Total/NA
Ammonia as N	2.7		0.12	0.060	mg/L	2	350.1		Total/NA
Total Dissolved Solids	220		5.0	5.0	mg/L	1	SM 2540C		Total/NA
Field pH	4.32			SU		1	Field Sampling		Total/NA
Field Temperature	23.60			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.09			mg/L		1	Field Sampling		Total/NA

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Client Sample ID: TH-30 (Continued)

Lab Sample ID: 660-50432-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	410				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.67				NTU	1		Field Sampling	Total/NA

5

### Client Sample ID: TH-40

Lab Sample ID: 660-50432-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total
Chloride	8.2		0.50	0.20	mg/L	1		300.0	Recoverable
Ammonia as N	0.46		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	23.50				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Specific Conductance	328				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.19				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-19

Lab Sample ID: 660-50432-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	13		0.50	0.31	mg/L	1		6010B	Total
Chloride	8.1		0.50	0.20	mg/L	1		300.0	Recoverable
Ammonia as N	0.39	J3	0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	240		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	23.48				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.22				mg/L	1		Field Sampling	Total/NA
Specific Conductance	363				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.39				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-42

Lab Sample ID: 660-50453-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	640	J3	200	50	ug/L	1		6010B	Total
Sodium	15		0.50	0.31	mg/L	1		6010B	Recoverable
Chloride	17		0.50	0.20	mg/L	1		300.0	Total
Ammonia as N	0.35		0.060	0.030	mg/L	1		350.1	Recoverable
Total Dissolved Solids	270		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.03				SU	1		Field Sampling	Total/NA
Field Temperature	23.93				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.15				mg/L	1		Field Sampling	Total/NA
Specific Conductance	366				umhos/cm	1		Field Sampling	Total/NA
Turbidity	17.8				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-72

Lab Sample ID: 660-50453-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1900		200	50	ug/L	1		6010B	Total
Sodium	210		0.50	0.31	mg/L	1		6010B	Recoverable
Chloride	650		10	4.0	mg/L	20		300.0	Total

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Client Sample ID: TH-72 (Continued)

### Lab Sample ID: 660-50453-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	25		1.2	0.60	mg/L	20	350.1		Total/NA
Total Dissolved Solids	1500		50	50	mg/L	1	SM 2540C		Total/NA
Field pH	6.43			SU		1	Field Sampling		Total/NA
Field Temperature	23.22			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.60			mg/L		1	Field Sampling		Total/NA
Specific Conductance	1654			umhos/cm		1	Field Sampling		Total/NA
Turbidity	0.46			NTU		1	Field Sampling		Total/NA

### Client Sample ID: TH-73

### Lab Sample ID: 660-50453-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3400		200	50	ug/L	1	6010B		Total Recoverable
Sodium	16		0.50	0.31	mg/L	1	6010B		Total Recoverable
Chloride	43		2.0	0.80	mg/L	4	300.0		Total/NA
Ammonia as N	1.2		0.060	0.030	mg/L	1	350.1		Total/NA
Total Dissolved Solids	130		5.0	5.0	mg/L	1	SM 2540C		Total/NA
Field pH	4.86			SU		1	Field Sampling		Total/NA
Field Temperature	24.68			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.18			mg/L		1	Field Sampling		Total/NA
Specific Conductance	222			umhos/cm		1	Field Sampling		Total/NA
Turbidity	7.56			NTU		1	Field Sampling		Total/NA

### Client Sample ID: SUP 1

### Lab Sample ID: 660-50453-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	470		200	50	ug/L	1	6010B		Total Recoverable
Sodium	8.3		0.50	0.31	mg/L	1	6010B		Total Recoverable
Chloride	9.4		0.50	0.20	mg/L	1	300.0		Total/NA
Ammonia as N	0.15		0.060	0.030	mg/L	1	350.1		Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1	SM 2540C		Total/NA
Field pH	7.29			SU		1	Field Sampling		Total/NA
Field Temperature	24.45			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.06			mg/L		1	Field Sampling		Total/NA
Specific Conductance	243			umhos/cm		1	Field Sampling		Total/NA
Turbidity	0.17			NTU		1	Field Sampling		Total/NA

### Client Sample ID: SUP 2

### Lab Sample ID: 660-50453-5

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		0.50	0.20	mg/L	1	300.0		Total/NA
Ammonia as N	0.15		0.060	0.030	mg/L	1	350.1		Total/NA
Total Dissolved Solids	220		5.0	5.0	mg/L	1	SM 2540C		Total/NA
Field pH	7.26			SU		1	Field Sampling		Total/NA
Field Temperature	24.82			Degrees C		1	Field Sampling		Total/NA
Oxygen, Dissolved	0.06			mg/L		1	Field Sampling		Total/NA
Specific Conductance	261			umhos/cm		1	Field Sampling		Total/NA
Turbidity	0.12			NTU		1	Field Sampling		Total/NA

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: BLANK EQUIPMENT**

**Lab Sample ID: 660-50432-1**

Date Collected: 10/04/12 09:20

Matrix: Ground Water

Date Received: 10/04/12 14:30

### 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		10/08/12 10:09	10/08/12 16:08	1
Iron	50	U	200	50	ug/L		10/08/12 10:09	10/08/12 16:08	1
Sodium	1.4		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:08	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L		10/08/12 12:36		1
Ammonia as N	0.030	U	0.060	0.030	mg/L		10/09/12 21:09		1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L		10/05/12 10:35		1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: DUPLICATE NOT BLANK**

**Lab Sample ID: 660-50432-2**

Date Collected: 10/04/12 00:00

Matrix: Ground Water

Date Received: 10/04/12 14:30

**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		10/08/12 10:09	10/08/12 16:12	1
Iron	50	U	200	50	ug/L		10/08/12 10:09	10/08/12 16:12	1
Sodium	13		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:12	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		0.50	0.20	mg/L		10/08/12 10:48		1
Ammonia as N	0.37		0.060	0.030	mg/L			10/09/12 21:35	1
Total Dissolved Solids	240		5.0	5.0	mg/L			10/05/12 10:35	1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-75**

**Date Collected: 10/04/12 13:21**

**Date Received: 10/04/12 14:30**

**Lab Sample ID: 660-50432-3**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4	I	10	4.0	ug/L		10/08/12 10:09	10/08/12 16:15	1
Iron	9200		200	50	ug/L		10/08/12 10:09	10/08/12 16:15	1
Sodium	15		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:15	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51		1.0	0.40	mg/L			10/08/12 18:06	2
Ammonia as N	2.5		0.12	0.060	mg/L			10/09/12 21:30	2
Total Dissolved Solids	240		5.0	5.0	mg/L			10/05/12 10:35	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.35				SU			10/04/12 13:21	1
Field Temperature	24.54				Degrees C			10/04/12 13:21	1
Oxygen, Dissolved	0.15				mg/L			10/04/12 13:21	1
Specific Conductance	346				umhos/cm			10/04/12 13:21	1
Turbidity	6.73				NTU			10/04/12 13:21	1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-74**

**Lab Sample ID: 660-50432-4**

Date Collected: 10/04/12 12:57

Matrix: Ground Water

Date Received: 10/04/12 14:30

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5	I	10	4.0	ug/L		10/08/12 10:09	10/08/12 16:18	1
Iron	19000		200	50	ug/L		10/08/12 10:09	10/08/12 16:18	1
Sodium	22		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:18	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76		2.5	1.0	mg/L			10/08/12 11:19	5
Ammonia as N	3.5		0.12	0.060	mg/L			10/09/12 21:32	2
Total Dissolved Solids	260		5.0	5.0	mg/L			10/05/12 10:35	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.36				SU			10/04/12 12:57	1
Field Temperature	24.12				Degrees C			10/04/12 12:57	1
Oxygen, Dissolved	0.25				mg/L			10/04/12 12:57	1
Specific Conductance	369				umhos/cm			10/04/12 12:57	1
Turbidity	3.98				NTU			10/04/12 12:57	1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID:** TH-57

**Lab Sample ID:** 660-50432-5

**Date Collected:** 10/04/12 12:33

**Matrix:** Ground Water

**Date Received:** 10/04/12 14:30

**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		10/08/12 10:09	10/08/12 16:22	1
Iron	630		200	50	ug/L		10/08/12 10:09	10/08/12 16:22	1
Sodium	13		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:22	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		0.50	0.20	mg/L			10/08/12 11:35	1
Ammonia as N	1.5		0.060	0.030	mg/L			10/09/12 21:33	1
Total Dissolved Solids	110		5.0	5.0	mg/L			10/05/12 10:35	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.93				SU			10/04/12 12:33	1
Field Temperature	26.91				Degrees C			10/04/12 12:33	1
Oxygen, Dissolved	0.17				mg/L			10/04/12 12:33	1
Specific Conductance	211				umhos/cm			10/04/12 12:33	1
Turbidity	2.43				NTU			10/04/12 12:33	1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-28A**

**Lab Sample ID: 660-50432-6**

Date Collected: 10/04/12 12:12

Matrix: Ground Water

Date Received: 10/04/12 14:30

**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		10/08/12 10:09	10/08/12 16:25	1
Iron	3400		200	50	ug/L		10/08/12 10:09	10/08/12 16:25	1
Sodium	18		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:25	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		2.0	0.80	mg/L			10/08/12 09:47	4
Ammonia as N	2.4		0.12	0.060	mg/L			10/09/12 21:46	2
Total Dissolved Solids	130		5.0	5.0	mg/L			10/05/12 10:35	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.08			SU				10/04/12 12:12	1
Field Temperature	27.36			Degrees C				10/04/12 12:12	1
Oxygen, Dissolved	0.31			mg/L				10/04/12 12:12	1
Specific Conductance	234			umhos/cm				10/04/12 12:12	1
Turbidity	10.7			NTU				10/04/12 12:12	1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-58**

**Lab Sample ID: 660-50432-7**

Date Collected: 10/04/12 11:49

Matrix: Ground Water

Date Received: 10/04/12 14:30

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		10	4.0	ug/L		10/08/12 10:09	10/08/12 16:28	1
Iron	3600		200	50	ug/L		10/08/12 10:09	10/08/12 16:28	1
Sodium	41		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:28	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.0	2.0	mg/L		10/08/12 10:33		10
Ammonia as N	1.2		0.060	0.030	mg/L		10/09/12 21:40		1
Total Dissolved Solids	410		10	10	mg/L		10/05/12 10:35		1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.61				SU		10/04/12 11:49		1
Field Temperature	26.51				Degrees C		10/04/12 11:49		1
Oxygen, Dissolved	0.28				mg/L		10/04/12 11:49		1
Specific Conductance	645				umhos/cm		10/04/12 11:49		1
Turbidity	2.57				NTU		10/04/12 11:49		1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-30**

**Lab Sample ID: 660-50432-8**

**Date Collected: 10/04/12 11:27**

**Matrix: Ground Water**

**Date Received: 10/04/12 14:30**

**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		10/08/12 10:09	10/08/12 16:38	1
Iron	420		200	50	ug/L		10/08/12 10:09	10/08/12 16:38	1
Sodium	27		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:38	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		2.5	1.0	mg/L			10/08/12 19:54	5
Ammonia as N	2.7		0.12	0.060	mg/L			10/09/12 21:48	2
Total Dissolved Solids	220		5.0	5.0	mg/L			10/05/12 10:35	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.32			SU				10/04/12 11:27	1
Field Temperature	23.60			Degrees C				10/04/12 11:27	1
Oxygen, Dissolved	0.09			mg/L				10/04/12 11:27	1
Specific Conductance	410			umhos/cm				10/04/12 11:27	1
Turbidity	2.67			NTU				10/04/12 11:27	1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-40**

**Lab Sample ID: 660-50432-9**

Date Collected: 10/04/12 09:40

Matrix: Ground Water

Date Received: 10/04/12 14:30

**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		10/08/12 10:09	10/08/12 16:41	1
Iron	50	U	200	50	ug/L		10/08/12 10:09	10/08/12 16:41	1
Sodium	16		0.50	0.31	mg/L		10/08/12 10:09	10/08/12 16:41	1

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**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.2		0.50	0.20	mg/L		10/08/12 20:55		1
Ammonia as N	0.46		0.060	0.030	mg/L		10/09/12 21:34		1
Total Dissolved Solids	200		5.0	5.0	mg/L		10/05/12 10:35		1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.29				SU		10/04/12 09:40		1
Field Temperature	23.50				Degrees C		10/04/12 09:40		1
Oxygen, Dissolved	0.25				mg/L		10/04/12 09:40		1
Specific Conductance	328				umhos/cm		10/04/12 09:40		1
Turbidity	0.19				NTU		10/04/12 09:40		1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-19**

**Date Collected: 10/04/12 10:12**

**Date Received: 10/04/12 14:30**

**Lab Sample ID: 660-50432-10**

**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		10/08/12 10:12	10/08/12 16:45	1
Iron	50	U	200	50	ug/L		10/08/12 10:12	10/08/12 16:45	1
Sodium	13		0.50	0.31	mg/L		10/08/12 10:12	10/08/12 16:45	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		0.50	0.20	mg/L			10/08/12 21:11	1
Ammonia as N	0.39	J3	0.060	0.030	mg/L			10/09/12 22:08	1
Total Dissolved Solids	240		5.0	5.0	mg/L			10/05/12 10:35	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.09				SU			10/04/12 10:12	1
Field Temperature	23.48				Degrees C			10/04/12 10:12	1
Oxygen, Dissolved	0.22				mg/L			10/04/12 10:12	1
Specific Conductance	363				umhos/cm			10/04/12 10:12	1
Turbidity	0.39				NTU			10/04/12 10:12	1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-42**

**Lab Sample ID: 660-50453-1**

Date Collected: 10/05/12 10:51

Matrix: Ground Water

Date Received: 10/05/12 13:48

**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		10/11/12 08:43	10/11/12 15:05	1
Iron	640	J3	200	50	ug/L		10/11/12 08:43	10/11/12 15:05	1
Sodium	15		0.50	0.31	mg/L		10/11/12 08:43	10/11/12 15:05	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		0.50	0.20	mg/L			10/08/12 21:41	1
Ammonia as N	0.35		0.060	0.030	mg/L			10/09/12 22:09	1
Total Dissolved Solids	270		10	10	mg/L			10/08/12 12:01	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.03				SU			10/05/12 10:51	1
Field Temperature	23.93				Degrees C			10/05/12 10:51	1
Oxygen, Dissolved	0.15				mg/L			10/05/12 10:51	1
Specific Conductance	366				umhos/cm			10/05/12 10:51	1
Turbidity	17.8				NTU			10/05/12 10:51	1

## Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-72**

**Lab Sample ID: 660-50453-2**

Date Collected: 10/05/12 09:59

Matrix: Ground Water

Date Received: 10/05/12 13:48

**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		10/11/12 08:43	10/11/12 15:18	1
Iron	1900		200	50	ug/L		10/11/12 08:43	10/11/12 15:18	1
Sodium	210		0.50	0.31	mg/L		10/11/12 08:43	10/11/12 15:18	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	650		10	4.0	mg/L			10/10/12 10:41	20
Ammonia as N	25		1.2	0.60	mg/L			10/09/12 22:19	20
Total Dissolved Solids	1500		50	50	mg/L			10/08/12 12:01	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.43			SU				10/05/12 09:59	1
Field Temperature	23.22			Degrees C				10/05/12 09:59	1
Oxygen, Dissolved	0.60			mg/L				10/05/12 09:59	1
Specific Conductance	1654			umhos/cm				10/05/12 09:59	1
Turbidity	0.46			NTU				10/05/12 09:59	1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID:** TH-73

**Lab Sample ID:** 660-50453-3

**Date Collected:** 10/05/12 09:17

**Matrix:** Ground Water

**Date Received:** 10/05/12 13:48

**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		10/11/12 08:43	10/11/12 15:21	1
Iron	3400		200	50	ug/L		10/11/12 08:43	10/11/12 15:21	1
Sodium	16		0.50	0.31	mg/L		10/11/12 08:43	10/11/12 15:21	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		2.0	0.80	mg/L			10/08/12 22:28	4
Ammonia as N	1.2		0.060	0.030	mg/L			10/09/12 22:11	1
Total Dissolved Solids	130		5.0	5.0	mg/L			10/08/12 12:01	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.86				SU			10/05/12 09:17	1
Field Temperature	24.68				Degrees C			10/05/12 09:17	1
Oxygen, Dissolved	0.18				mg/L			10/05/12 09:17	1
Specific Conductance	222				umhos/cm			10/05/12 09:17	1
Turbidity	7.56				NTU			10/05/12 09:17	1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: SUP 1**

**Lab Sample ID: 660-50453-4**

**Date Collected: 10/05/12 11:56**

**Matrix: Ground Water**

**Date Received: 10/05/12 13:48**

**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		10/11/12 08:43	10/11/12 15:24	1
Iron	470		200	50	ug/L		10/11/12 08:43	10/11/12 15:24	1
Sodium	8.3		0.50	0.31	mg/L		10/11/12 08:43	10/11/12 15:24	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		0.50	0.20	mg/L			10/08/12 19:38	1
Ammonia as N	0.15		0.060	0.030	mg/L			10/09/12 22:13	1
Total Dissolved Solids	210		5.0	5.0	mg/L			10/08/12 12:01	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.29			SU				10/05/12 11:56	1
Field Temperature	24.45			Degrees C				10/05/12 11:56	1
Oxygen, Dissolved	0.06			mg/L				10/05/12 11:56	1
Specific Conductance	243			umhos/cm				10/05/12 11:56	1
Turbidity	0.17			NTU				10/05/12 11:56	1

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: SUP 2**

**Lab Sample ID: 660-50453-5**

Date Collected: 10/05/12 11:27

Matrix: Ground Water

Date Received: 10/05/12 13:48

**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		10/11/12 08:43	10/11/12 15:34	1
Iron	50	U	200	50	ug/L		10/11/12 08:43	10/11/12 15:34	1
Sodium	8.4		0.50	0.31	mg/L		10/11/12 08:43	10/11/12 15:34	1

**General Chemistry**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		0.50	0.20	mg/L			10/08/12 18:52	1
Ammonia as N	0.15		0.060	0.030	mg/L			10/09/12 22:14	1
Total Dissolved Solids	220		5.0	5.0	mg/L			10/08/12 12:01	1

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.26				SU			10/05/12 11:27	1
Field Temperature	24.82				Degrees C			10/05/12 11:27	1
Oxygen, Dissolved	0.06				mg/L			10/05/12 11:27	1
Specific Conductance	261				umhos/cm			10/05/12 11:27	1
Turbidity	0.12				NTU			10/05/12 11:27	1

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 660-130062/1-A**

**Matrix: Water**

**Analysis Batch: 130080**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 130062**

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	4.0	U	10	4.0	ug/L		10/08/12 10:09	10/08/12 15:20	1
Iron	50	U	200	50	ug/L		10/08/12 10:09	10/08/12 15:20	1
Sodium	0.31	U	0.50	0.31	mg/L		10/08/12 10:09	10/08/12 15:20	1

**Lab Sample ID: LCS 660-130062/2-A**

**Matrix: Water**

**Analysis Batch: 130080**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 130062**

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added								
Arsenic	1000		943		ug/L		94	80 - 120	
Iron	1000		1050		ug/L		105	80 - 120	
Sodium	10.0		9.43		mg/L		94	80 - 120	

**Lab Sample ID: LCSD 660-130062/3-A**

**Matrix: Water**

**Analysis Batch: 130080**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total Recoverable**  
**Prep Batch: 130062**

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	%Rec.	RPD
	Added									
Arsenic	1000		935		ug/L		93	80 - 120	1	20
Iron	1000		1040		ug/L		104	80 - 120	1	20
Sodium	10.0		9.43		mg/L		94	80 - 120	0	20

**Lab Sample ID: 640-40590-A-18-B MS**

**Matrix: Water**

**Analysis Batch: 130080**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total Recoverable**  
**Prep Batch: 130062**

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier		Result	Qualifier					
Arsenic	4.0	U	1000	943		ug/L		94	80 - 120	
Iron	590		1000	1730		ug/L		114	80 - 120	
Sodium	3.2		10.0	12.7		mg/L		95	80 - 120	

**Lab Sample ID: 640-40590-A-18-C MSD**

**Matrix: Water**

**Analysis Batch: 130080**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total Recoverable**  
**Prep Batch: 130062**

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	Limits	%Rec.	RPD
	Result	Qualifier		Result	Qualifier						
Arsenic	4.0	U	1000	937		ug/L		94	80 - 120	1	20
Iron	590		1000	1710		ug/L		112	80 - 120	1	20
Sodium	3.2		10.0	12.6		mg/L		94	80 - 120	1	20

**Lab Sample ID: MB 660-130221/1-A**

**Matrix: Water**

**Analysis Batch: 130256**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 130221**

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	4.0	U	10	4.0	ug/L		10/11/12 08:43	10/11/12 14:55	1
Iron	50	U	200	50	ug/L		10/11/12 08:43	10/11/12 14:55	1
Sodium	0.31	U	0.50	0.31	mg/L		10/11/12 08:43	10/11/12 14:55	1

## QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

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

**Lab Sample ID: LCS 660-130221/2-A**

**Matrix: Water**

**Analysis Batch: 130256**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total Recoverable**

**Prep Batch: 130221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Arsenic	1000	978		ug/L		98	80 . 120
Iron	1000	1010		ug/L		101	80 . 120
Sodium	10.0	9.64		mg/L		96	80 . 120

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**Lab Sample ID: 660-50453-1 MS**

**Matrix: Ground Water**

**Analysis Batch: 130256**

**Client Sample ID: TH-42**

**Prep Type: Total Recoverable**

**Prep Batch: 130221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Arsenic	4.0	U	1000	960		ug/L		96	80 . 120
Iron	640	J3	1000	1930	J3	ug/L		129	80 . 120
Sodium	15		10.0	25.6		mg/L		101	80 . 120

**Lab Sample ID: 660-50453-1 MSD**

**Matrix: Ground Water**

**Analysis Batch: 130256**

**Client Sample ID: TH-42**

**Prep Type: Total Recoverable**

**Prep Batch: 130221**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Arsenic	4.0	U	1000	979		ug/L		98	80 . 120	2	20
Iron	640	J3	1000	2010	J3	ug/L		137	80 . 120	4	20
Sodium	15		10.0	25.7		mg/L		103	80 . 120	1	20

### Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 660-130121/39**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Analysis Batch: 130121**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			10/08/12 18:21	1

**Lab Sample ID: MB 660-130121/4**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Analysis Batch: 130121**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			10/08/12 09:16	1

**Lab Sample ID: LCS 660-130121/40**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Analysis Batch: 130121**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Chloride	10.0	10.1		mg/L		101	90 . 110

**Lab Sample ID: LCS 660-130121/5**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Analysis Batch: 130121**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Chloride	10.0	10.0		mg/L		100	90 . 110

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Lab Sample ID: 660-50432-6 MS**

**Matrix: Ground Water**

**Analysis Batch: 130121**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Chloride	43		40.0	86.2		mg/L		108	90 - 110

**Client Sample ID: TH-28A**

**Prep Type: Total/NA**

**Lab Sample ID: 660-50432-6 MSD**

**Matrix: Ground Water**

**Analysis Batch: 130121**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier					
Chloride	43		40.0	85.3		mg/L		106	90 - 110	1

**Client Sample ID: TH-28A**

**Prep Type: Total/NA**

**Lab Sample ID: 660-50453-5 MS**

**Matrix: Ground Water**

**Analysis Batch: 130121**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Chloride	11		10.0	21.1		mg/L		104	90 - 110

**Client Sample ID: SUP 2**

**Prep Type: Total/NA**

**Lab Sample ID: 660-50453-5 MSD**

**Matrix: Ground Water**

**Analysis Batch: 130121**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier					
Chloride	11		10.0	21.2		mg/L		105	90 - 110	0

**Client Sample ID: SUP 2**

**Prep Type: Total/NA**

**Lab Sample ID: MB 660-130234/4**

**Matrix: Water**

**Analysis Batch: 130234**

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			10/10/12 08:53	1

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Lab Sample ID: LCS 660-130234/5**

**Matrix: Water**

**Analysis Batch: 130234**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Chloride	10.0	10.1		mg/L		101	90 - 110

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Lab Sample ID: 660-50479-A-1 MS**

**Matrix: Water**

**Analysis Batch: 130234**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec
	Result	Qualifier	Added	Result	Qualifier			
Chloride	40	L J3	10.0	47.9	L J3	mg/L	79	90 - 110

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Lab Sample ID: 660-50479-A-1 MSD**

**Matrix: Water**

**Analysis Batch: 130234**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec
	Result	Qualifier	Added	Result	Qualifier			
Chloride	40	L J3	10.0	48.0	J3 L	mg/L	80	90 - 110

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

## Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-130153/10

Client Sample ID: Method Blank  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130153

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	0.030	U	0.060	0.030	mg/L			10/09/12 20:48	1

Lab Sample ID: LCS 660-130153/11

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130153

Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result							
Ammonia as N	0.500	0.534			mg/L		107	90 . 110	

Lab Sample ID: 660-50403-A-1 MS

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130153

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.20		0.300	0.516		mg/L	107	90 . 110	

Lab Sample ID: 660-50403-A-1 MSD

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130153

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.20		0.300	0.515		mg/L	106	90 . 110	0 . 30

Lab Sample ID: 660-50407-A-6 MS

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130153

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.030	U	0.300	0.285		mg/L		95	90 . 110

Lab Sample ID: 660-50407-A-6 MSD

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130153

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.030	U	0.300	0.303		mg/L	101	90 . 110	6 . 30

Lab Sample ID: MB 660-130154/3

Client Sample ID: Method Blank  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130154

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	0.030	U	0.060	0.030	mg/L			10/09/12 22:05	1

Lab Sample ID: LCS 660-130154/4

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130154

Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result							
Ammonia as N	0.500	0.513			mg/L		103	90 . 110	

## QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-50432-10 MS

Client Sample ID: TH-19

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 130154

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.39	J3	0.300	0.666		mg/L	92	90 - 110	

Lab Sample ID: 660-50432-10 MSD

Client Sample ID: TH-19

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 130154

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.39	J3	0.300	0.650	J3	mg/L	87	90 - 110	2

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

Lab Sample ID: MB 660-129997/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 129997

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			10/05/12 10:35	1

Lab Sample ID: LCS 660-129997/2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 129997

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Total Dissolved Solids	10000	9750		mg/L		98	80 - 120

Lab Sample ID: 660-50432-10 DU

Client Sample ID: TH-19

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 129997

Analyte	Sample	Sample	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	240			238	mg/L				0 20

Lab Sample ID: MB 660-130073/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 130073

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			10/08/12 12:01	1

Lab Sample ID: LCS 660-130073/2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 130073

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Total Dissolved Solids	10000	9980		mg/L		100	80 - 120

## QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

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

Lab Sample ID: 660-50449-A-1 DU

Matrix: Water

Analysis Batch: 130073

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	740		730		mg/L		1	20

## QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Metals

#### Prep Batch: 130062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40590-A-18-B MS	Matrix Spike	Total Recoverable	Water	3005A	
640-40590-A-18-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-50432-1	BLANK EQUIPMENT	Total Recoverable	Ground Water	3005A	
660-50432-2	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	3005A	
660-50432-3	TH-75	Total Recoverable	Ground Water	3005A	
660-50432-4	TH-74	Total Recoverable	Ground Water	3005A	
660-50432-5	TH-57	Total Recoverable	Ground Water	3005A	
660-50432-6	TH-28A	Total Recoverable	Ground Water	3005A	
660-50432-7	TH-58	Total Recoverable	Ground Water	3005A	
660-50432-8	TH-30	Total Recoverable	Ground Water	3005A	
660-50432-9	TH-40	Total Recoverable	Ground Water	3005A	
660-50432-10	TH-19	Total Recoverable	Ground Water	3005A	
LCS 660-130062/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 660-130062/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
MB 660-130062/1-A	Method Blank	Total Recoverable	Water	3005A	

#### Analysis Batch: 130080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40590-A-18-B MS	Matrix Spike	Total Recoverable	Water	6010B	130062
640-40590-A-18-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	130062
660-50432-1	BLANK EQUIPMENT	Total Recoverable	Ground Water	6010B	130062
660-50432-2	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	6010B	130062
660-50432-3	TH-75	Total Recoverable	Ground Water	6010B	130062
660-50432-4	TH-74	Total Recoverable	Ground Water	6010B	130062
660-50432-5	TH-57	Total Recoverable	Ground Water	6010B	130062
660-50432-6	TH-28A	Total Recoverable	Ground Water	6010B	130062
660-50432-7	TH-58	Total Recoverable	Ground Water	6010B	130062
660-50432-8	TH-30	Total Recoverable	Ground Water	6010B	130062
660-50432-9	TH-40	Total Recoverable	Ground Water	6010B	130062
660-50432-10	TH-19	Total Recoverable	Ground Water	6010B	130062
LCS 660-130062/2-A	Lab Control Sample	Total Recoverable	Water	6010B	130062
LCSD 660-130062/3-A	Lab Control Sample Dup	Total Recoverable	Water	6010B	130062
MB 660-130062/1-A	Method Blank	Total Recoverable	Water	6010B	130062

#### Prep Batch: 130221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50453-1	TH-42	Total Recoverable	Ground Water	3005A	
660-50453-1 MS	TH-42	Total Recoverable	Ground Water	3005A	
660-50453-1 MSD	TH-42	Total Recoverable	Ground Water	3005A	
660-50453-2	TH-72	Total Recoverable	Ground Water	3005A	
660-50453-3	TH-73	Total Recoverable	Ground Water	3005A	
660-50453-4	SUP 1	Total Recoverable	Ground Water	3005A	
660-50453-5	SUP 2	Total Recoverable	Ground Water	3005A	
LCS 660-130221/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-130221/1-A	Method Blank	Total Recoverable	Water	3005A	

#### Analysis Batch: 130256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50453-1	TH-42	Total Recoverable	Ground Water	6010B	130221
660-50453-1 MS	TH-42	Total Recoverable	Ground Water	6010B	130221
660-50453-1 MSD	TH-42	Total Recoverable	Ground Water	6010B	130221
660-50453-2	TH-72	Total Recoverable	Ground Water	6010B	130221

## QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### Metals (Continued)

#### Analysis Batch: 130256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50453-3	TH-73	Total Recoverable	Ground Water	6010B	130221
660-50453-4	SUP 1	Total Recoverable	Ground Water	6010B	130221
660-50453-5	SUP 2	Total Recoverable	Ground Water	6010B	130221
LCS 660-130221/2-A	Lab Control Sample	Total Recoverable	Water	6010B	130221
MB 660-130221/1-A	Method Blank	Total Recoverable	Water	6010B	130221

### General Chemistry

#### Analysis Batch: 129997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50432-1	BLANK EQUIPMENT	Total/NA	Ground Water	SM 2540C	
660-50432-2	DUPLICATE NOT BLANK	Total/NA	Ground Water	SM 2540C	
660-50432-3	TH-75	Total/NA	Ground Water	SM 2540C	
660-50432-4	TH-74	Total/NA	Ground Water	SM 2540C	
660-50432-5	TH-57	Total/NA	Ground Water	SM 2540C	
660-50432-6	TH-28A	Total/NA	Ground Water	SM 2540C	
660-50432-7	TH-58	Total/NA	Ground Water	SM 2540C	
660-50432-8	TH-30	Total/NA	Ground Water	SM 2540C	
660-50432-9	TH-40	Total/NA	Ground Water	SM 2540C	
660-50432-10	TH-19	Total/NA	Ground Water	SM 2540C	
660-50432-10 DU	TH-19	Total/NA	Ground Water	SM 2540C	
LCS 660-129997/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-129997/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 130073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50449-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-50453-1	TH-42	Total/NA	Ground Water	SM 2540C	
660-50453-2	TH-72	Total/NA	Ground Water	SM 2540C	
660-50453-3	TH-73	Total/NA	Ground Water	SM 2540C	
660-50453-4	SUP 1	Total/NA	Ground Water	SM 2540C	
660-50453-5	SUP 2	Total/NA	Ground Water	SM 2540C	
LCS 660-130073/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-130073/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 130121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50432-1	BLANK EQUIPMENT	Total/NA	Ground Water	300.0	
660-50432-2	DUPLICATE NOT BLANK	Total/NA	Ground Water	300.0	
660-50432-3	TH-75	Total/NA	Ground Water	300.0	
660-50432-4	TH-74	Total/NA	Ground Water	300.0	
660-50432-5	TH-57	Total/NA	Ground Water	300.0	
660-50432-6	TH-28A	Total/NA	Ground Water	300.0	
660-50432-6 MS	TH-28A	Total/NA	Ground Water	300.0	
660-50432-6 MSD	TH-28A	Total/NA	Ground Water	300.0	
660-50432-7	TH-58	Total/NA	Ground Water	300.0	
660-50432-8	TH-30	Total/NA	Ground Water	300.0	
660-50432-9	TH-40	Total/NA	Ground Water	300.0	
660-50432-10	TH-19	Total/NA	Ground Water	300.0	
660-50453-1	TH-42	Total/NA	Ground Water	300.0	
660-50453-3	TH-73	Total/NA	Ground Water	300.0	
660-50453-4	SUP 1	Total/NA	Ground Water	300.0	

## QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### General Chemistry (Continued)

#### Analysis Batch: 130121 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50453-5	SUP 2	Total/NA	Ground Water	300.0	
660-50453-5 MS	SUP 2	Total/NA	Ground Water	300.0	
660-50453-5 MSD	SUP 2	Total/NA	Ground Water	300.0	
LCS 660-130121/40	Lab Control Sample	Total/NA	Water	300.0	
LCS 660-130121/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-130121/39	Method Blank	Total/NA	Water	300.0	
MB 660-130121/4	Method Blank	Total/NA	Water	300.0	

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#### Analysis Batch: 130153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50403-A-1 MS	Matrix Spike	Total/NA	Water	350.1	
660-50403-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-50407-A-6 MS	Matrix Spike	Total/NA	Water	350.1	
660-50407-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-50432-1	BLANK EQUIPMENT	Total/NA	Ground Water	350.1	
660-50432-2	DUPLICATE NOT BLANK	Total/NA	Ground Water	350.1	
660-50432-3	TH-75	Total/NA	Ground Water	350.1	
660-50432-4	TH-74	Total/NA	Ground Water	350.1	
660-50432-5	TH-57	Total/NA	Ground Water	350.1	
660-50432-6	TH-28A	Total/NA	Ground Water	350.1	
660-50432-7	TH-58	Total/NA	Ground Water	350.1	
660-50432-8	TH-30	Total/NA	Ground Water	350.1	
660-50432-9	TH-40	Total/NA	Ground Water	350.1	
LCS 660-130153/11	Lab Control Sample	Total/NA	Water	350.1	
MB 660-130153/10	Method Blank	Total/NA	Water	350.1	

#### Analysis Batch: 130154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50432-10	TH-19	Total/NA	Ground Water	350.1	
660-50432-10 MS	TH-19	Total/NA	Ground Water	350.1	
660-50432-10 MSD	TH-19	Total/NA	Ground Water	350.1	
660-50453-1	TH-42	Total/NA	Ground Water	350.1	
660-50453-2	TH-72	Total/NA	Ground Water	350.1	
660-50453-3	TH-73	Total/NA	Ground Water	350.1	
660-50453-4	SUP 1	Total/NA	Ground Water	350.1	
660-50453-5	SUP 2	Total/NA	Ground Water	350.1	
LCS 660-130154/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-130154/3	Method Blank	Total/NA	Water	350.1	

#### Analysis Batch: 130234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50453-2	TH-72	Total/NA	Ground Water	300.0	
660-50479-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
660-50479-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-130234/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-130234/4	Method Blank	Total/NA	Water	300.0	

### Field Service / Mobile Lab

#### Analysis Batch: 130057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50432-3	TH-75	Total/NA	Ground Water	Field Sampling	

## QC Association Summary

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

### **Field Service / Mobile Lab (Continued)**

#### **Analysis Batch: 130057 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50432-4	TH-74	Total/NA	Ground Water	Field Sampling	
660-50432-5	TH-57	Total/NA	Ground Water	Field Sampling	
660-50432-6	TH-28A	Total/NA	Ground Water	Field Sampling	
660-50432-7	TH-58	Total/NA	Ground Water	Field Sampling	
660-50432-8	TH-30	Total/NA	Ground Water	Field Sampling	
660-50432-9	TH-40	Total/NA	Ground Water	Field Sampling	
660-50432-10	TH-19	Total/NA	Ground Water	Field Sampling	

#### **Analysis Batch: 130127**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50453-1	TH-42	Total/NA	Ground Water	Field Sampling	
660-50453-2	TH-72	Total/NA	Ground Water	Field Sampling	
660-50453-3	TH-73	Total/NA	Ground Water	Field Sampling	
660-50453-4	SUP 1	Total/NA	Ground Water	Field Sampling	
660-50453-5	SUP 2	Total/NA	Ground Water	Field Sampling	

## Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
 Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: BLANK EQUIPMENT**

**Lab Sample ID: 660-50432-1**

Date Collected: 10/04/12 09:20

Matrix: Ground Water

Date Received: 10/04/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:08	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 12:36	KW	TAL TAM
Total/NA	Analysis	350.1		1	130153	10/09/12 21:09	TO	TAL TAM

**Client Sample ID: DUPLICATE NOT BLANK**

**Lab Sample ID: 660-50432-2**

Date Collected: 10/04/12 00:00

Matrix: Ground Water

Date Received: 10/04/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:12	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 10:48	KW	TAL TAM
Total/NA	Analysis	350.1		1	130153	10/09/12 21:35	TO	TAL TAM

**Client Sample ID: TH-75**

**Lab Sample ID: 660-50432-3**

Date Collected: 10/04/12 13:21

Matrix: Ground Water

Date Received: 10/04/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:15	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		2	130121	10/08/12 18:06	KW	TAL TAM
Total/NA	Analysis	350.1		2	130153	10/09/12 21:30	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 13:21		TAL TAM

**Client Sample ID: TH-74**

**Lab Sample ID: 660-50432-4**

Date Collected: 10/04/12 12:57

Matrix: Ground Water

Date Received: 10/04/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:18	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		5	130121	10/08/12 11:19	KW	TAL TAM
Total/NA	Analysis	350.1		2	130153	10/09/12 21:32	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 12:57		TAL TAM

# Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-57**

Date Collected: 10/04/12 12:33

Date Received: 10/04/12 14:30

**Lab Sample ID: 660-50432-5**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:22	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 11:35	KW	TAL TAM
Total/NA	Analysis	350.1		1	130153	10/09/12 21:33	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 12:33		TAL TAM

9

**Client Sample ID: TH-28A**

Date Collected: 10/04/12 12:12

Date Received: 10/04/12 14:30

**Lab Sample ID: 660-50432-6**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:25	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		4	130121	10/08/12 09:47	KW	TAL TAM
Total/NA	Analysis	350.1		2	130153	10/09/12 21:46	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 12:12		TAL TAM

**Client Sample ID: TH-58**

Date Collected: 10/04/12 11:49

Date Received: 10/04/12 14:30

**Lab Sample ID: 660-50432-7**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:28	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		10	130121	10/08/12 10:33	KW	TAL TAM
Total/NA	Analysis	350.1		1	130153	10/09/12 21:40	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 11:49		TAL TAM

**Client Sample ID: TH-30**

Date Collected: 10/04/12 11:27

Date Received: 10/04/12 14:30

**Lab Sample ID: 660-50432-8**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:38	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		5	130121	10/08/12 19:54	KW	TAL TAM
Total/NA	Analysis	350.1		2	130153	10/09/12 21:48	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 11:27		TAL TAM

## Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-40**

Date Collected: 10/04/12 09:40

Date Received: 10/04/12 14:30

**Lab Sample ID: 660-50432-9**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:09	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:41	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 20:55	KW	TAL TAM
Total/NA	Analysis	350.1		1	130153	10/09/12 21:34	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 09:40		TAL TAM

**Client Sample ID: TH-19**

Date Collected: 10/04/12 10:12

Date Received: 10/04/12 14:30

**Lab Sample ID: 660-50432-10**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130062	10/08/12 10:12	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130080	10/08/12 16:45	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	129997	10/05/12 10:35	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 21:11	KW	TAL TAM
Total/NA	Analysis	350.1		1	130154	10/09/12 22:08	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130057	10/04/12 10:12		TAL TAM

**Client Sample ID: TH-42**

Date Collected: 10/05/12 10:51

Date Received: 10/05/12 13:48

**Lab Sample ID: 660-50453-1**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130221	10/11/12 08:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130256	10/11/12 15:05	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	130073	10/08/12 12:01	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 21:41	KW	TAL TAM
Total/NA	Analysis	350.1		1	130154	10/09/12 22:09	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130127	10/05/12 10:51		TAL TAM

**Client Sample ID: TH-72**

Date Collected: 10/05/12 09:59

Date Received: 10/05/12 13:48

**Lab Sample ID: 660-50453-2**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130221	10/11/12 08:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130256	10/11/12 15:18	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	130073	10/08/12 12:01	TO	TAL TAM
Total/NA	Analysis	350.1		20	130154	10/09/12 22:19	TO	TAL TAM
Total/NA	Analysis	300.0		20	130234	10/10/12 10:41	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	130127	10/05/12 09:59		TAL TAM

## Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

**Client Sample ID: TH-73**

Date Collected: 10/05/12 09:17

Date Received: 10/05/12 13:48

**Lab Sample ID: 660-50453-3**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130221	10/11/12 08:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130256	10/11/12 15:21	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	130073	10/08/12 12:01	TO	TAL TAM
Total/NA	Analysis	300.0		4	130121	10/08/12 22:28	KW	TAL TAM
Total/NA	Analysis	350.1		1	130154	10/09/12 22:11	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130127	10/05/12 09:17		TAL TAM

**Client Sample ID: SUP 1**

Date Collected: 10/05/12 11:56

Date Received: 10/05/12 13:48

**Lab Sample ID: 660-50453-4**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130221	10/11/12 08:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130256	10/11/12 15:24	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	130073	10/08/12 12:01	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 19:38	KW	TAL TAM
Total/NA	Analysis	350.1		1	130154	10/09/12 22:13	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130127	10/05/12 11:56		TAL TAM

**Client Sample ID: SUP 2**

Date Collected: 10/05/12 11:27

Date Received: 10/05/12 13:48

**Lab Sample ID: 660-50453-5**

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			130221	10/11/12 08:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	130256	10/11/12 15:34	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	130073	10/08/12 12:01	TO	TAL TAM
Total/NA	Analysis	300.0		1	130121	10/08/12 18:52	KW	TAL TAM
Total/NA	Analysis	350.1		1	130154	10/09/12 22:14	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	130127	10/05/12 11:27		TAL TAM

**Laboratory References:**

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 Landfill

TestAmerica Job ID: 660-50432-1

### 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	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	11-30-12
USDA	Federal		P330-11-00177	04-20-14

## Method Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL TAM
300.0	Anions, Ion Chromatography	MCAWW	TAL TAM
350.1	Nitrogen, Ammonia	MCAWW	TAL TAM
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 TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

## Sample Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: Southeast Landfill

TestAmerica Job ID: 660-50432-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-50432-1	BLANK EQUIPMENT	Ground Water	10/04/12 09:20	10/04/12 14:30
660-50432-2	DUPLICATE NOT BLANK	Ground Water	10/04/12 00:00	10/04/12 14:30
660-50432-3	TH-75	Ground Water	10/04/12 13:21	10/04/12 14:30
660-50432-4	TH-74	Ground Water	10/04/12 12:57	10/04/12 14:30
660-50432-5	TH-57	Ground Water	10/04/12 12:33	10/04/12 14:30
660-50432-6	TH-28A	Ground Water	10/04/12 12:12	10/04/12 14:30
660-50432-7	TH-58	Ground Water	10/04/12 11:49	10/04/12 14:30
660-50432-8	TH-30	Ground Water	10/04/12 11:27	10/04/12 14:30
660-50432-9	TH-40	Ground Water	10/04/12 09:40	10/04/12 14:30
660-50432-10	TH-19	Ground Water	10/04/12 10:12	10/04/12 14:30
660-50453-1	TH-42	Ground Water	10/05/12 10:51	10/05/12 13:48
660-50453-2	TH-72	Ground Water	10/05/12 09:59	10/05/12 13:48
660-50453-3	TH-73	Ground Water	10/05/12 09:17	10/05/12 13:48
660-50453-4	SUP 1	Ground Water	10/05/12 11:56	10/05/12 13:48
660-50453-5	SUP 2	Ground Water	10/05/12 11:27	10/05/12 13:48

660-50438

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: Am Clayton REP. OF SOLID WASTE DEPT. 10-2-12 2:10

LOCATION: BLANK, EQUIPMENT SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon A.L.Clayton

FIELD PARAMETERS: N/A

13

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  
10-4-12 9:20

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Am Clayton DATE | TIME  
 ACCEPTED BY: J. T. Y. REP. OF SOLID WASTE DEPT. 10-4-12 2:30  
 REP. OF CONTRACT LAB. 10-4-12 2:30

COMMENT'S: WB # 0068

4.7% CG-07

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: John Clapp REP. OF SOLID WASTE DEPT. 10.2.12 2:10

LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION : A.Balloon J.Clapp

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

10.4.12 —

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: .

DATE | TIME

RELINQUISHED BY: John Clapp REP. OF SOLID WASTE DEPT. 10.4.12 2:30

ACCEPTED BY: John Clapp REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: 60# 0068

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: Jim Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

LOCATION: TH-75 WACS# 28308 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon S.Clayton

WELL DIAMETER: 2 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 17.00 Ft.

PURGE STARTED: 10.4.12 1:10

DEPTH TO WATER: 7.59 Ft.

PURGE RATE: 0.20 GPM.

LENGTH OF WATER COL: 9.44 Ft.

DATE | TIME

VOLUME TO PURGE: 1.51 Gal.

PURGE ENDED: 10.4.12 1:21

ACT. VOL. PURGED: 2.20 GAL.

Draw Down: 8.38

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	1:17	24.55	343	5.37	0.18	9.79
AB JC	1:19	24.54	344	5.36	0.16	8.30
AB JC	1:21	24.54	344	5.35	0.15	6.73

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:

Colors and Sheens None

COLLECTED

DATE | TIME

10.4.12 1:21

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Jim Clayton DATE | TIME 10.4.12 2:30

ACCEPTED BY: J.F.M. REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: W0 # 0068

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

PRECLEANED SAMPLE CONTAINERS: \_\_\_\_\_ DATE | TIME

RELINQUISHED BY: \_\_\_\_\_ REP. OF CONTRACT LAB. \_\_\_\_\_ DATE | TIME

ACCEPTED BY: John Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:16

LOCATION: TH-74 WACS# 28307 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION  A.Balloon  J.Clayton

WELL DIAMETER: <u>2</u> INCH:	DATE   TIME
TOTAL DEPTH OF WELL: <u>17.00</u> Ft.	PURGE STARTED: <u>10.4.12 12:47</u>
DEPTH TO WATER: <u>9.55</u> Ft.	PURGE RATE: <u>0.20</u> GPM.
LENGTH OF WATER COL: <u>7.45</u> Ft.	DATE   TIME
VOLUME TO PURGE: <u>1.19</u> Gal.	PURGE ENDED: <u>10.4.12 12:57</u>
	ACT. VOL. PURGED: <u>2.00</u> GAL.
	Draw Down: <u>10.87</u>

FIELD PARAMETERS:

BY	Temp TIME	Cond TEMP	pH COND	DO PH	Turb DO	Time TURB
AB SCI	24.15	373	5.41	0.33	6.52	12:53
AB SCI	24.13	371	5.38	0.28	5.22	12:55
AB SCI	24.12	349	5.34	0.25	3.98	12:57

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:

Colors and Sheens None COLLECTED DATE | TIME  
10.4.12 12:57

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:  
 RELINQUISHED BY: John Clayton REP. OF SOLID WASTE DEPT. 10.4.12 2:30  
 ACCEPTED BY: J.H.W.C. REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: WOTF 0068

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: \_\_\_\_\_ REP. OF CONTRACT LAB. \_\_\_\_\_ |

ACCEPTED BY: Am Clayton REP. OF SOLID WASTE DEPT. 10.2.12 | 2:10LOCATION: TH-57 WACS# 1570 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_PERSONAL ENGAGED IN SAMPLE COLLECTION  A.Balloon  J.Clayton WELL DIAMETER: 2.0 INCH: DATE | TIMETOTAL DEPTH OF WELL: 26.83 Ft. PURGE STARTED: 10.4.12 | 12:24DEPTH TO WATER: 18.48 Ft. PURGE RATE: 0.25 GPM.LENGTH OF WATER COL: 8.35 Ft. DATE | TIMEVOLUME TO PURGE: 1.34 Gal. PURGE ENDED: 10.4.12 | 12:33ACT. VOL. PURGED: 2.25 GAL.Draw Down: 19.99FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:29	24.93	207	4.90	0.26	2.98
AB JC	12:31	24.92	211	4.93	0.19	2.07
AB JC	12:33	24.91	211	4.93	0.17	2.43

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  
10.4.12 | 12:33ANALYSIS REQUESTED:AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0  SAMPLE STORAGE: COOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES: DATE | TIME

RELINQUISHED BY: Am Clayton REP. OF SOLID WASTE DEPT. 10.4.12 | 2:30ACCEPTED BY: J.W.C. REP. OF CONTRACT LAB. 10.4.12 | 2:30COMMENT'S: 60 # 0068HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET  
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: \_\_\_\_\_ REP. OF CONTRACT LAB. \_\_\_\_\_

ACCEPTED BY: John Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

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

PERSONAL ENGAGED IN SAMPLE COLLECTION WA.Balloon J.Clayton

WELL DIAMETER: 2.0 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 34.30 Ft.

PURGE STARTED:

10.4.12 12:02

DEPTH TO WATER: 28.04 Ft.

PURGE RATE:

0.15 GPM.

LENGTH OF WATER COL: 6.244 Ft.

DATE | TIME

VOLUME TO PURGE: 1.00 Gal.

PURGE ENDED:

10.4.12 12:12

ACT. VOL. PURGED:

1.50 GAL.

Draw Down:

28.92

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:08	27.38	234	5.10	0.49	18.4
AB JC	12:10	27.37	233	5.09	0.39	13.4
AB JC	12:12	27.36	234	5.08	0.31	10.7

13

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

10.4.12 12:12

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: \_\_\_\_\_ DATE | TIME

RELINQUISHED BY: John Clayton REP. OF SOLID WASTE DEPT. 10.4.12 2:30

ACCEPTED BY: John Clayton REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: WOT# 0068

PRECLEANED SAMPLE CONTAINERS: \_\_\_\_\_ DATE | TIME

RELINQUISHED BY: \_\_\_\_\_ REP. OF CONTRACT LAB. \_\_\_\_\_

ACCEPTED BY: Don Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

LOCATION: TH-58 WACS# 1571 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION  A. Balloon  J. Clayton

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 32.92 Ft.

DATE | TIME

DEPTH TO WATER: 27.71 Ft.

PURGE STARTED: 10.4.12 11:40

LENGTH OF WATER COL: 5.21 Ft.

PURGE RATE: 0.15 GPM.

VOLUME TO PURGE: 0.83 Gal.

DATE | TIME

PURGE ENDED: 10.4.12 11:49

ACT. VOL. PURGED: GAL.

Draw Down: 28.55

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	11:45	26.55	702	5.44	0.58	3.01
AB	11:47	24.52	670	5.42	0.38	2.32
AB	11:49	26.51	645	5.61	0.28	2.57

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  
10.4.12 11:49

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Don Clayton DATE | TIME  
ACCEPTED BY: J. Fink REP. OF SOLID WASTE DEPT. 10.4.12 2:30

REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: WD# 0068

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: Dan Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

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

PERSONAL ENGAGED IN SAMPLE COLLECTION  A. Balloon  J. Clayton

WELL DIAMETER: <u>2.00</u>	INCH:	<u>DATE   TIME</u>
TOTAL DEPTH OF WELL: <u>46.19</u>	Ft.	PURGE STARTED: <u>10.4.12 11:09</u>
DEPTH TO WATER: <u>23.79</u>	Ft.	PURGE RATE: <u>0.25 GPM.</u>
LENGTH OF WATER COL: <u>22.40</u>	Ft.	<u>DATE   TIME</u>
VOLUME TO PURGE: <u>3.58</u>	Gal.	PURGE ENDED: <u>10.4.12 11:27</u>
		ACT. VOL. PURGED: <u>4.50 GAL.</u>
		Draw Down: <u>24.12</u>

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB 12	11:23	23.59	405	4.33	0.10	2.04
AB 12	11:25	23.40	408	4.32	0.09	2.18
AB 12	11:27	23.60	410	4.32	0.09	2.67

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  
10.4.12 11:27

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:  
 RELINQUISHED BY: Dan Clayton DATE | TIME  
 ACCEPTED BY: J. Clayton REP. OF SOLID WASTE DEPT. 10.4.12 2:30  
 REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: W0 # 0048 H2S odor

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 Clayton REP. OF SOLID WASTE DEPT. 10.2.12 | 2:10

LOCATION: TH-40 WACS# 822 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION V.A.Balloon A.L.Clayton

WELL DIAMETER: 2.0 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 165.90 Ft.

PURGE STARTED: 10.4.12 | 9:24

DEPTH TO WATER: 85.05 Ft.

PURGE RATE: 1.00 GPM.

LENGTH OF WATER COL: 80.85 Ft.

DATE | TIME

VOLUME TO PURGE: 12.94 Gal.

PURGE ENDED: 10.4.12 | 9:40

ACT. VOL. PURGED: 16.00 GAL.

Draw Down: 87.98

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	
AB 1A	9:34	23.50	330	7.27	0.30	1.25	=
AB 1E	9:38	23.50	329	7.26	0.27	0.60	
AB 3C	9:40	23.50	328	7.29	0.25	0.19	

13

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

10.4.12 | 9:40

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

DATE | TIME

RELINQUISHED BY: Am Clayton

REP. OF SOLID WASTE DEPT. 10.4.12 | 2:30

ACCEPTED BY: JH

REP. OF CONTRACT LAB. 10.4.12 | 2:30

COMMENT'S: W0 # 0048

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: \_\_\_\_\_ REP. OF CONTRACT LAB. \_\_\_\_\_

ACCEPTED BY: Lin Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

LOCATION: TH-19 WACS# 821 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_  
PERSONAL ENGAGED IN SAMPLE COLLECTION  A. Balloon  L. Clayton

WELL DIAMETER: <u>2.0</u> INCH:	DATE   TIME
TOTAL DEPTH OF WELL: <u>153.60</u> Ft.	<u>10.4.12 9:58</u>
DEPTH TO WATER: <u>89.98</u> Ft.	PURGE RATE: <u>1.00 GPM.</u>
LENGTH OF WATER COL: <u>43.62</u> Ft.	DATE   TIME
VOLUME TO PURGE: <u>10.18</u> Gal.	PURGE ENDED: <u>10.4.12 10:12</u>
	ACT. VOL. PURGED: <u>14.00 GAL.</u>
	Draw Down: <u>90.15</u>

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:08	23.48	366	7.09	0.24	0.40
AB JC	10:10	23.49	364	7.10	0.23	0.99
AB JC	10:12	23.48	343	7.09	0.22	10.39

13

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  
10.4.12 10:12

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:  
RELINQUISHED BY: Lin Clayton DATE | TIME  
ACCEPTED BY: JFLL REP. OF SOLID WASTE DEPT. 10.4.12 2:30  
REP. OF CONTRACT LAB. 10.4.12 2:30

COMMENT'S: NO #2068

660-50453

PRECLEANED SAMPLE CONTAINERS: DATE | TIME

RELINQUISHED BY: \_\_\_\_\_ REP. OF CONTRACT LAB. \_\_\_\_\_

ACCEPTED BY: John Clayton REP. OF SOLID WASTE DEPT. 10.5.12 2:10LOCATION: TH-42 WACS# 823 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_PERSONAL ENGAGED IN SAMPLE COLLECTION  A.Balloon  JClayton WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 164.00 Ft.  
DEPTH TO WATER: 67.34 Ft.  
LENGTH OF WATER COL: 96.64 Ft.  
VOLUME TO PURGE: 15.44 Gal.PURGE STARTED: 10.5.12 10:17  
PURGE RATE: 0.50 GPM.  
PURGE ENDED: 10.5.12 10:51  
ACT. VOL. PURGED: 17.00 GAL.  
Draw Down: 94.30

DATE | TIME

## FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	12 10:47	23.90	369	7.02	0.17	15.5
AB	12 10:49	23.91	367	7.02	0.16	14.5
AB	12 10:51	23.93	366	7.03	0.15	17.8

## 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  
10.5.12 10:51

## ANALYSIS REQUESTED:

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: John Clayton DATE | TIME  
ACCEPTED BY: Janet Gandy REP. OF SOLID WASTE DEPT. 10.5.12 1:48  
REP. OF CONTRACT LAB. 10.5.12 1:48COMMENT'S: W0 # 0068HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET  
SOUTHEAST LANDFILL WELL MONITORING PROGRAM3.2 CV-09  
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10/24/2012

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: Jim Clayton

REP. OF SOLID WASTE DEPT. 10.2.12 2:10

LOCATION: TH-72 WACS# 27753

SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_

PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon S.Clayton

WELL DIAMETER: 2 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 190.00 Ft.

PURGE STARTED: 10.5.12 9:24

DEPTH TO WATER: 90.29 Ft.

PURGE RATE: 0.50 GPM.

LENGTH OF WATER COL: 99.71 Ft.

DATE | TIME

VOLUME TO PURGE: 15.95 Gal.

PURGE ENDED: 10.5.12 9:59

ACT. VOL. PURGED: 17.50 GAL.

Draw Down: 90.25

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	=
AB J2	9:55	23.22	1644	4.43	0.68	0.49	
AB J2	9:57	23.23	1642	6.43	0.47	0.42	
AB J2	9:59	23.22	1654	6.43	0.40	0.46	

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:

Colors and Sheens none

COLLECTED

DATE | TIME

10.5.12 9:59

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0

SAMPLE STORAGE: COOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES:

DATE | TIME

RELINQUISHED BY: Jim Clayton

REP. OF SOLID WASTE DEPT. 10.5.12 1:48

ACCEPTED BY: Ernest Edwards

REP. OF CONTRACT LAB. 10.5.12 1:48

COMMENT'S: W0 FF 0068

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: John Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

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

PERSONAL ENGAGED IN SAMPLE COLLECTION WA.Balloon J.Clayton

WELL DIAMETER: 2 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 43.40 Ft.

PURGE STARTED: 10.5.12 9:04

DEPTH TO WATER: 31.38 Ft.

PURGE RATE: 0.25 GPM.

LENGTH OF WATER COL: 12.02 Ft.

DATE | TIME

VOLUME TO PURGE: 1.92 Gal.

PURGE ENDED: 10.5.12 9:17

ACT. VOL. PURGED: 2.75 GAL.

Draw Down: 35.48

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
PB Jc	9:13	24.69	223	4.85	0.24	6.53
AB Jc	9:15	24.69	223	4.85	0.22	6.80
AB Jc	9:17	24.68	222	4.84	0.18	7.54

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:

Colors and Sheens none COLLECTED DATE | TIME  
10.5.12 9:17

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:  
RELINQUISHED BY: John Clayton DATE | TIME  
ACCEPTED BY: Ernest Edney REP. OF SOLID WASTE DEPT. 10.5.12 1:48  
REP. OF CONTRACT LAB. 10.5.12 1:48

COMMENT'S: W20 # DOGS H2S odor

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: Jin Clayton REP. OF SOLID WASTE DEPT. 10.5.12 2:10

LOCATION: SUP 1 WACS# 27755 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_  
 PERSONAL ENGAGED IN SAMPLE COLLECTION  A. Balloon  S. Clayton

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 10.5.12 TIME 11:37  
 ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB 52	11:52	24.51	245	7.29	0.07	0.12
AB 53	11:54	24.48	244	7.30	0.07	0.25
AB 52	11:56	24.45	243	7.29	0.06	0.17

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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  
10.5.12 11:56

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: \_\_\_\_\_ DATE | TIME  
 RELINQUISHED BY: Jin Clayton REP. OF SOLID WASTE DEPT. 10.5.12 1:48  
 ACCEPTED BY: Emilia Eddy REP. OF CONTRACT LAB. 10.5.12 1:48

COMMENT'S: W0 # 0068 H2S odor

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: John Clayton REP. OF SOLID WASTE DEPT. 10.2.12 2:10

LOCATION: SUP 2 WACS# 27756 SAMPLE MATRIX: WATER OTHER MATRIX: \_\_\_\_\_  
 PERSONAL ENGAGED IN SAMPLE COLLECTION  A.Balloon  J.Clinton

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 10.5.12 TIME 11:08  
 ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	10:23	24.74	262	7.27	0.07	0.24
AB JC	11:25	24.81	262	7.27	0.07	0.15
AB JC	11:27	24.82	261	7.26	0.06	0.12

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  
10.5.12 11:27

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0  SAMPLE STORAGE: CCOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES: \_\_\_\_\_ DATE | TIME  
 RELINQUISHED BY: John Clayton REP. OF SOLID WASTE DEPT. 10.5.12 1:48  
 ACCEPTED BY: James Johnson REP. OF CONTRACT LAB. 10.5.12 1:48

COMMENT'S: WOT# 0048

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-50432-1

Login Number: 50432

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-50432-1

Login Number: 50453

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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