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June 21, 2013

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

**RE: Southeast County Landfill  
Laboratory Analytical Results  
Initial Assessment Monitoring Plan  
Report No. 32 – April 2013**

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of our continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. These sampling activities were conducted on April 3-5, 2013, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples were collected from twelve (12) 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 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 4.24 to 5.95 pH units. The pH values within the surficial aquifer across the SCLF have historically been observed below the acceptable range, and the observed values are consistent with the historical and background water qualities. The pH values observed in each of the four (4) upper Floridan groundwater monitoring wells and the two (2) supply wells were within the acceptable range, and consistent with historical data for the site.

### **Turbidity**

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. During this sampling event, values ranged from 0.45 to 19.7 Nephelometric Turbidity Units (NTU) in the surficial aquifer wells, with the highest value recorded at P-18S. Turbidity values ranged from 0.07 to 16.1 NTU in the upper Floridan wells.

### **Conductivity**

The conductivity values in most of the groundwater monitoring wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. The conductivity values observed in the surficial aquifer ranged from 119 to 475 micromhos per centimeter (umhos/cm). The conductivity values observed in the upper Floridan groundwater monitoring wells at the site are historically low. However, during this sampling event TH-72 continues to exhibit an elevated conductivity value of 1,252 uhmos/cm.

### **Total Dissolved Solids (TDS)**

The TDS values observed in the surficial aquifer groundwater monitoring wells were ranged from 90 to 390 mg/l, and all below the SDWS of 500 mg/l. The TDS observed in TH-72 was above the SDWS at a concentration of 870 mg/l.

### **Chloride**

Chloride values in the surficial aquifer groundwater monitoring wells ranged in concentration from 17 to 170 mg/l, which are all below the SDWS of 250 mg/l. The chloride value observed in TH-72 continued to be elevated with a result of 260 mg/l. Chloride values are historically very low in the upper Floridan aquifer monitoring wells and limited use potable supply wells.

### **Sodium**

Sodium values in the surficial aquifer groundwater monitoring wells ranged in concentration from 9.8 to 36 mg/l, which are all below the PDWS of 160 mg/l. The sodium value observed in TH-72 was 100 mg/l, which is also below the PDWS.

### **Arsenic**

The arsenic concentration observed in TH-58 during this sampling event was 0.026 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present in TH-58 at almost the same concentration for well over ten years. Although significant changes in water quality were observed in TH-58 shortly after formation of the sinkhole, the arsenic values continued to remain very stable. This observation continues to support the position that the arsenic is not attributable to the landfill or the sinkhole. The arsenic observed is likely naturally occurring within the soils in the vicinity of the well and potentially being mobilized in the anaerobic environment below the lined landfill.

### **Iron**

Total iron concentrations in the seven (7) surficial aquifer wells were all observed above the SDWS of 0.3 mg/l. The elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are consistent with background water quality, and are likely naturally occurring and/or the result of past strip mining activities. The concentrations of iron in the upper Floridan wells were below the SDWS, except in TH-42 and TH-72, which exhibited concentrations of 0.76 mg/l and 1 mg/l, respectively.

### **Total Ammonia**

The upper Floridan well TH-72 continues to exhibit ammonia above the GCTL of 2.8 mg/l at a concentration of 10 mg/l. In addition, surficial aquifer groundwater monitoring wells TH-28A and TH-30 also exhibited ammonia slightly above the GCTL, both with a concentration of 2.9 ug/l. The source of the ammonia observed in the groundwater in the immediate vicinity of the sinkhole is likely attributable to groundwater migrating downward through the waste in the sinkhole and the fluids associated with the grout materials introduced into the subsurface to stabilize the area.

### **Groundwater Elevations and Direction of Flow**

The County has collected monthly groundwater and surface water elevation data at sixty-three (63) points across the site, including twenty eight (28) surficial aquifer wells, five (5) upper Floridan (limestone) aquifer wells, twenty three (23) piezometers, and seven (7) surface water sites. The elevation data is generally collected the day before the IAMP sampling event. However, due to scheduling issues the water level data was collected on April 3, 2013, which was also the first day of the sampling event. As previously mentioned last month, piezometer P-5D was observed to be filled with soil approximately 15.6 feet below the top of casing. It appears that the integrity of this piezometer has been compromised, and the County intends to request approval for the proper abandonment of this piezometer.

The groundwater elevation and contour diagram was prepared using the Surfer 7™ software package overlain on an AutoCAD™ base map. No significant changes to the patterns of flow in the surficial aquifer were noted in the April data set and the diagram is consistent with the

observations 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 somewhat affected, which would not be unexpected. However, the overall direction of flow remains toward the west/northwest across the site.

### **Conclusions**

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

The impacts observed in the upper Floridan aquifer monitoring well, TH-72, continue to exhibit elevated concentrations of conductivity, TDS, chloride, ammonia, iron and sodium. Based on the proximity to the sinkhole, these impacts were not unexpected within the upper Floridan / Limestone aquifer.

### **Recommendations**

As agreed during our discussions with the FDEP Southwest District, the County has installed two additional upper Floridan / Limestone aquifer monitoring wells in the down gradient direction in order to evaluate the potential horizontal extent of the impacts observed in TH-72. The location of these wells is approximately 200-300 feet west/southwest of the sinkhole and TH-72 and are designated as TH-76 and TH-77. A well completion report prepared by HDR Engineering, Inc. has been provided for your review on May 31, 2013.

Furthermore, The Department granted approval to the County for the proposed changes in the monitoring program beginning with the May 2013 sampling event. Upper Floridan monitoring wells TH-72, TH-76, and TH-77 will be monitored on a monthly schedule, and surficial aquifer monitoring wells, TH-73, TH-74, and TH-75 will be monitored on a quarterly schedule. The June and July sampling events will only include the three upper Floridan wells. As requested by the Department, reporting of each monthly data set will be submitted to the Department by the end of the following month.

Enclosed for your review please find a site location map depicting the wells sampled, the water quality data summary table for the April 2013 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 March 2013, and the complete analytical data report from our contracted laboratory, Test America, Inc.

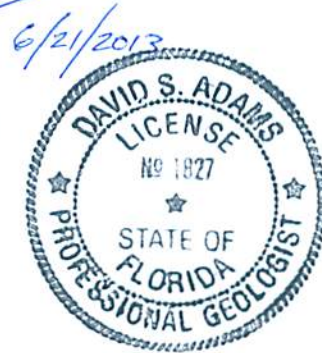
Mr. John Morris, P.G.  
June 21, 2013  
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Should you have any questions or require any additional information please feel free to call me at (813) 663-3221.

Respectfully submitted,

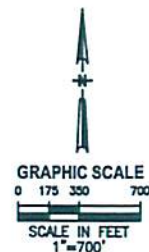


David S. Adams, P.G.  
Environmental Manager  
Public Utilities Department



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Andy Schipfer, EPC  
Ernest Ely, WMI  
Brian Miller, DOH  
Rich Siemering, HDR  
Joe O'Neill, CDS





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

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



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

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

**April 4-5, 2013**

Note: Ref. Groundwater Guidance Concentrations, FDEP 2012									
MCL=MAXIMUM CONTAMINANT LEVEL									
BDL=BELOW DETECTION LIMIT									
NTU=NEPHELOMETRIC TURBIDITY UNITS									
u = parameter was analyzed but not detected.									
*=DENOTES PRIMARY DRINKING WATER STANDARD									
**=DENOTES SECONDARY DRINKING WATER STANDARD									
***=DENOTES FLORIDA GUIDANCE CONCENTRATION									
4.98		EXCEEDS STANDARD							
ug/l=MICROGRAMS PER LITER									
mg/l=MILLIGRAMS PER LITER									
NS=NO STANDARD									

# Groundwater and Surface Water Elevations For Southeast Landfill

## April 3, 2013

Measuring Point I.D.	T.O.C. Elevations (NGVD)	04/03/2013 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	22.79	117.99	1:11 PM
P-4S	140.95	10.11	130.84	1:12 PM
P-6D	151.94	ND	ND	10:52 AM
P-6D-A	148.01	28.92	119.09	10:44 AM
P-7D	138.92	18.80	120.12	10:26 AM
P-8D	138.34	18.93	119.41	10:05 AM
P-11D	138.02	18.36	119.66	10:09 AM
P-12S	134.97	15.23	119.74	10:02 AM
P-13S	140.21	20.50	119.71	10:16 AM
P-14S	138.56	18.89	119.67	10:19 AM
P-15S	139.19	19.56	119.63	10:21 AM
P-16S	143.38	16.38	127.00	10:31 AM
P-16I	144.15	24.91	119.24	10:30 AM
P-16D	143.84	24.61	119.23	10:29 AM
P-17S	137.35	20.21	117.14	10:41 AM
P-17I	137.32	18.18	119.14	10:40 AM
P-17D	137.22	18.16	119.06	10:39 AM
P-18S	129.86	18.94	110.92	1:23 PM
P-19	133.36	15.47	117.89	10:50 AM
P-20	132.38	13.76	118.62	1:06 PM
P-21	122.79	5.08	117.71	12:47 PM
P-22	128.35	10.32	118.03	12:50 PM
P-23	143.13	24.57	118.56	1:00 PM
TH-19*	130.27	113.31	16.96	11:05 AM
TH-20A	131.86	10.57	121.29	9:48 AM
TH-20B	132.57	11.56	121.01	9:47 AM
TH-22	128.82	6.07	122.75	9:30 AM
TH-22A	129.27	6.68	122.59	9:29 AM
TH-24A	128.23	6.22	122.01	9:35 AM
TH-28A	131.10	29.04	102.06	1:45 PM
TH-30	128.88	24.18	104.70	2:01 PM
TH-32	129.90	15.80	114.10	11:50 AM
TH-35	145.98	29.26	116.72	10:54 AM
TH-36A	152.70	33.60	119.10	11:00 AM
TH-38A	130.68	10.90	119.78	9:53 AM
TH-38B	131.81	11.69	120.12	9:54 AM
TH-40*	124.99	107.95	17.04	9:40 AM
TH-41*	125.00	113.94	11.06	9:39 AM
TH-42*	116.74	85.42	31.32	11:43 AM
TH-57	128.36	19.73	108.63	1:48 PM
TH-58	127.88	28.57	99.31	2:04 PM
TH-61	138.73	18.44	120.29	10:11 AM
TH-61A	139.45	19.09	120.36	10:10 AM
TH-64	139.64	19.03	120.61	10:17 AM
TH-65	135.40	15.32	120.08	10:00 AM
TH-66	130.58	10.07	120.51	9:59 AM
TH-66A	130.66	10.54	120.12	9:58 AM
TH-67	129.51	7.31	122.20	9:50 AM
TH-68	140.01	20.38	119.63	10:24 AM
TH-69A	144.97	26.10	118.87	1:18 PM
TH-70A	146.63	26.57	120.06	1:15 PM
TH-71A	146.95	28.04	118.91	12:55 PM
TH-72	130.96	111.35	19.61	1:32 PM
TH-73	131.07	32.41	98.66	1:30 PM
TH-74	109.08	10.52	98.56	1:50 PM
TH-75	106.92	8.23	98.69	1:53 PM
SW-3A	3.0'=125.53'	0.04	122.57	9:23 AM
SW-3B2B	3.0'=97.97'	1.28	96.25	12:42 PM
SW-3C2	6.0'=92.33'	1.00	87.33	12:34 PM
Mine Cut #1	4.0'=122.14'	1.90	120.04	10:13 AM
Mine Cut #2	6.0'=123.47'	1.90	119.37	10:53 AM
Mine Cut #3	4.0'=112.27'	1.92	110.19	11:47 AM
Mine Cut #4	5.0'=97.54'	1.46	94.00	11:53 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				





# 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: 660-53596-1

Client Project/Site: SELF -IAMP Monitoring Wells

For:

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

Attn: David Adams



Authorized for release by:  
4/17/2013 3:25:56 PM

Nancy Robertson  
Project Manager II  
[nancy.robertson@testamericainc.com](mailto:nancy.robertson@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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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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## Sample Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-53596-1	BLANK EQUIPMENT 53596	Ground Water	04/03/13 11:11	04/03/13 16:30
660-53596-2	TH-19	Water	04/03/13 11:28	04/03/13 16:30
660-53596-3	TH-42	Ground Water	04/03/13 12:22	04/03/13 16:30
660-53596-4	TH-72	Ground Water	04/03/13 14:25	04/03/13 16:30
660-53596-5	DUPLICATE NOT BLANK	Ground Water	04/03/13 00:00	04/03/13 16:30
660-53611-1	SUPPLY 1	Ground Water	04/04/13 11:00	04/04/13 13:25
660-53611-2	SUPPLY 2	Ground Water	04/04/13 10:19	04/04/13 13:25
660-53644-1	TH-40	Ground Water	04/05/13 09:36	04/05/13 16:10
660-53644-2	TH-57	Ground Water	04/05/13 10:04	04/05/13 16:10
660-53644-3	TH-74	Ground Water	04/05/13 10:32	04/05/13 16:10
660-53644-4	TH-75	Ground Water	04/05/13 11:01	04/05/13 16:10
660-53644-5	TH-30	Ground Water	04/05/13 11:39	04/05/13 16:10
660-53644-6	TH-58	Ground Water	04/05/13 12:17	04/05/13 16:10
660-53644-7	TH-73	Ground Water	04/05/13 12:43	04/05/13 16:10
660-53644-8	P-18S	Ground Water	04/05/13 13:54	04/05/13 16:10
660-53644-9	TH-28A	Ground Water	04/05/13 13:11	04/05/13 16:10

## Case Narrative

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Job ID: 660-53596-1**

**Laboratory: TestAmerica Tampa**

### Narrative

**Job Narrative**  
**660-53596-1**

### Comments

No additional comments.

### Receipt

The samples were received on 4/3/2013 4:30 PM, 4/4/2013 1:25 PM and 4/5/2013 4:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.3° C, 4.1° C and 6.8° C.

### Metals

No analytical or quality issues were noted.

### General Chemistry

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 272100 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 272157 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

## Definitions/Glossary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Qualifiers

#### Metals

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

#### General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
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.

### Glossary

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



## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Client Sample ID: BLANK EQUIPMENT 53596

### Lab Sample ID: 660-53596-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	0.71		0.50	0.31	mg/L	1			6010B	Total Recoverable

### Client Sample ID: TH-19

### Lab Sample ID: 660-53596-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1			6010B	Total Recoverable
Chloride	7.9		5.0	1.0	mg/L	5			300.0	Total/NA
Ammonia as N	0.36		0.050	0.026	mg/L	1			350.1	Total/NA
Total Dissolved Solids	210		10	10	mg/L	1			SM 2540C	Total/NA
Field pH	7.04				SU	1			Field Sampling	Total/NA
Field Temperature	23.49				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.39				mg/L	1			Field Sampling	Total/NA
Specific Conductance	366				umhos/cm	1			Field Sampling	Total/NA
Turbidity	0.14				NTU	1			Field Sampling	Total/NA

### Client Sample ID: TH-42

### Lab Sample ID: 660-53596-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	760		200	50	ug/L	1			6010B	Total Recoverable
Sodium	17		0.50	0.31	mg/L	1			6010B	Total Recoverable
Chloride	17		5.0	1.0	mg/L	5			300.0	Total/NA
Ammonia as N	0.35		0.050	0.026	mg/L	1			350.1	Total/NA
Total Dissolved Solids	280		10	10	mg/L	1			SM 2540C	Total/NA
Field pH	7.05				SU	1			Field Sampling	Total/NA
Field Temperature	23.87				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.94				mg/L	1			Field Sampling	Total/NA
Specific Conductance	459				umhos/cm	1			Field Sampling	Total/NA
Turbidity	16.1				NTU	1			Field Sampling	Total/NA

### Client Sample ID: TH-72

### Lab Sample ID: 660-53596-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	1000		200	50	ug/L	1			6010B	Total Recoverable
Sodium	100		0.50	0.31	mg/L	1			6010B	Total Recoverable
Chloride	260		10	2.0	mg/L	10			300.0	Total/NA
Ammonia as N	10		0.50	0.26	mg/L	10			350.1	Total/NA
Total Dissolved Solids	870		25	25	mg/L	1			SM 2540C	Total/NA
Field pH	6.74				SU	1			Field Sampling	Total/NA
Field Temperature	23.15				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.33				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1252				umhos/cm	1			Field Sampling	Total/NA
Turbidity	9.90				NTU	1			Field Sampling	Total/NA

### Client Sample ID: DUPLICATE NOT BLANK

### Lab Sample ID: 660-53596-5

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Client Sample ID: DUPLICATE NOT BLANK (Continued)

Lab Sample ID: 660-53596-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	780		200	50	ug/L	1		6010B	Total Recoverable
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	17		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.27		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	270		10	10	mg/L	1		SM 2540C	Total/NA

### Client Sample ID: SUPPLY 1

Lab Sample ID: 660-53611-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	54	I	200	50	ug/L	1		6010B	Total Recoverable
Sodium	13		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	9.4		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.11		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	180		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	24.37				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.75				mg/L	1		Field Sampling	Total/NA
Specific Conductance	292				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.15				NTU	1		Field Sampling	Total/NA

### Client Sample ID: SUPPLY 2

Lab Sample ID: 660-53611-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	9.2		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	11		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.13		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	24.40				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.11				mg/L	1		Field Sampling	Total/NA
Specific Conductance	299				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.07				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-40

Lab Sample ID: 660-53644-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	7.5		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.37		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	7.25				SU	1		Field Sampling	Total/NA
Field Temperature	23.43				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.35				mg/L	1		Field Sampling	Total/NA
Specific Conductance	279				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.15				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Client Sample ID: TH-57

### Lab Sample ID: 660-53644-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	300		200	50	ug/L	1		6010B	Total Recoverable
Sodium	11		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	23		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	0.94		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	90		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.87				SU	1		Field Sampling	Total/NA
Field Temperature	26.08				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Specific Conductance	119				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.45				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-74

### Lab Sample ID: 660-53644-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	20000		200	50	ug/L	1		6010B	Total Recoverable
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	43		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.9		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.34				SU	1		Field Sampling	Total/NA
Field Temperature	20.75				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.38				mg/L	1		Field Sampling	Total/NA
Specific Conductance	273				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.85				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-75

### Lab Sample ID: 660-53644-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8	I	10	4.0	ug/L	1		6010B	Total Recoverable
Iron	7300		200	50	ug/L	1		6010B	Total Recoverable
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	22		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.7		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	180		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.34				SU	1		Field Sampling	Total/NA
Field Temperature	21.08				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Specific Conductance	245				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.92				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-30

### Lab Sample ID: 660-53644-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	480		200	50	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

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

Lab Sample ID: 660-53644-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	36		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	170		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.9		0.25	0.13	mg/L	5		350.1	Total/NA
Total Dissolved Solids	390		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	4.24				SU	1		Field Sampling	Total/NA
Field Temperature	23.75				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.15				mg/L	1		Field Sampling	Total/NA
Specific Conductance	475				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.34				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-58

Lab Sample ID: 660-53644-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1		6010B	Total Recoverable
Iron	4100		200	50	ug/L	1		6010B	Total Recoverable
Sodium	15		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	17		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.3		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.95				SU	1		Field Sampling	Total/NA
Field Temperature	25.26				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.32				mg/L	1		Field Sampling	Total/NA
Specific Conductance	288				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.41				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-73

Lab Sample ID: 660-53644-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3400		200	50	ug/L	1		6010B	Total Recoverable
Sodium	20		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	53		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.1		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.73				SU	1		Field Sampling	Total/NA
Field Temperature	24.42				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.20				mg/L	1		Field Sampling	Total/NA
Specific Conductance	191				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.49				NTU	1		Field Sampling	Total/NA

### Client Sample ID: P-18S

Lab Sample ID: 660-53644-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2300		200	50	ug/L	1		6010B	Total Recoverable
Sodium	9.8		0.50	0.31	mg/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

## Detection Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Client Sample ID: P-18S (Continued)

Lab Sample ID: 660-53644-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.1		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.59				SU	1		Field Sampling	Total/NA
Field Temperature	27.14				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.21				mg/L	1		Field Sampling	Total/NA
Specific Conductance	144				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.7				NTU	1		Field Sampling	Total/NA

### Client Sample ID: TH-28A

Lab Sample ID: 660-53644-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3400		200	50	ug/L	1		6010B	Total Recoverable
Sodium	26		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	67		5.0	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.9		0.10	0.052	mg/L	2		350.1	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.91				SU	1		Field Sampling	Total/NA
Field Temperature	26.41				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.32				mg/L	1		Field Sampling	Total/NA
Specific Conductance	244				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.66				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: BLANK EQUIPMENT 53596**

**Lab Sample ID: 660-53596-1**

**Date Collected: 04/03/13 11:11**

**Matrix: Ground Water**

**Date Received: 04/03/13 16:30**

## 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		04/10/13 07:22	04/10/13 18:01	1
Iron	50	U	200	50	ug/L		04/10/13 07:22	04/10/13 18:01	1
Sodium	0.71		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:01	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			04/13/13 20:31	5
Ammonia as N	0.026	U	0.050	0.026	mg/L			04/05/13 10:38	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			04/10/13 12:38	1

**Client Sample ID: TH-19**

**Lab Sample ID: 660-53596-2**

**Date Collected: 04/03/13 11:28**

**Matrix: Water**

**Date Received: 04/03/13 16:30**

## 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		04/10/13 07:22	04/10/13 17:49	1
Iron	50	U	200	50	ug/L		04/10/13 07:22	04/10/13 17:49	1
Sodium	14		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 17:49	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		5.0	1.0	mg/L			04/13/13 20:44	5
Ammonia as N	0.36		0.050	0.026	mg/L			04/05/13 10:38	1
Total Dissolved Solids	210		10	10	mg/L			04/10/13 12:38	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.04				SU			04/03/13 11:28	1
Field Temperature	23.49				Degrees C			04/03/13 11:28	1
Oxygen, Dissolved	0.39				mg/L			04/03/13 11:28	1
Specific Conductance	366				umhos/cm			04/03/13 11:28	1
Turbidity	0.14				NTU			04/03/13 11:28	1

**Client Sample ID: TH-42**

**Lab Sample ID: 660-53596-3**

**Date Collected: 04/03/13 12:22**

**Matrix: Ground Water**

**Date Received: 04/03/13 16:30**

## 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		04/10/13 07:22	04/10/13 18:05	1
Iron	760		200	50	ug/L		04/10/13 07:22	04/10/13 18:05	1
Sodium	17		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:05	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	1.0	mg/L			04/13/13 20:56	5
Ammonia as N	0.35		0.050	0.026	mg/L			04/05/13 10:38	1
Total Dissolved Solids	280		10	10	mg/L			04/10/13 12:38	1

TestAmerica Tampa



# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Client Sample ID: TH-42

Date Collected: 04/03/13 12:22

Date Received: 04/03/13 16:30

## Lab Sample ID: 660-53596-3

Matrix: Ground Water

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.05				SU			04/03/13 12:22	1
Field Temperature	23.87				Degrees C			04/03/13 12:22	1
Oxygen, Dissolved	0.94				mg/L			04/03/13 12:22	1
Specific Conductance	459				umhos/cm			04/03/13 12:22	1
Turbidity	16.1				NTU			04/03/13 12:22	1

## Client Sample ID: TH-72

Date Collected: 04/03/13 14:25

Date Received: 04/03/13 16:30

## Lab Sample ID: 660-53596-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:08	1
Iron	1000		200	50	ug/L		04/10/13 07:22	04/10/13 18:08	1
Sodium	100		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:08	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		10	2.0	mg/L			04/13/13 21:08	10
Ammonia as N	10		0.50	0.26	mg/L			04/05/13 11:04	10
Total Dissolved Solids	870		25	25	mg/L			04/10/13 12:38	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.74				SU			04/03/13 14:25	1
Field Temperature	23.15				Degrees C			04/03/13 14:25	1
Oxygen, Dissolved	0.33				mg/L			04/03/13 14:25	1
Specific Conductance	1252				umhos/cm			04/03/13 14:25	1
Turbidity	9.90				NTU			04/03/13 14:25	1

## Client Sample ID: DUPLICATE NOT BLANK

Date Collected: 04/03/13 00:00

Date Received: 04/03/13 16:30

## Lab Sample ID: 660-53596-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:18	1
Iron	780		200	50	ug/L		04/10/13 07:22	04/10/13 18:18	1
Sodium	16		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:18	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	1.0	mg/L			04/13/13 21:21	5
Ammonia as N	0.27		0.050	0.026	mg/L			04/05/13 10:46	1
Total Dissolved Solids	270		10	10	mg/L			04/10/13 12:38	1

TestAmerica Tampa

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Client Sample ID: SUPPLY 1

Date Collected: 04/04/13 11:00

Date Received: 04/04/13 13:25

## Lab Sample ID: 660-53611-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/08/13 08:18	04/08/13 17:25	1
Iron	54	I	200	50	ug/L		04/08/13 08:18	04/08/13 17:25	1
Sodium	13		0.50	0.31	mg/L		04/08/13 08:18	04/08/13 17:25	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		5.0	1.0	mg/L			04/11/13 19:34	5
Ammonia as N	0.11		0.050	0.026	mg/L			04/06/13 09:33	1
Total Dissolved Solids	180		10	10	mg/L			04/10/13 12:38	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.33				SU			04/04/13 11:00	1
Field Temperature	24.37				Degrees C			04/04/13 11:00	1
Oxygen, Dissolved	0.75				mg/L			04/04/13 11:00	1
Specific Conductance	292				umhos/cm			04/04/13 11:00	1
Turbidity	0.15				NTU			04/04/13 11:00	1

## Client Sample ID: SUPPLY 2

Date Collected: 04/04/13 10:19

Date Received: 04/04/13 13:25

## Lab Sample ID: 660-53611-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/08/13 08:18	04/08/13 17:28	1
Iron	50	U	200	50	ug/L		04/08/13 08:18	04/08/13 17:28	1
Sodium	9.2		0.50	0.31	mg/L		04/08/13 08:18	04/08/13 17:28	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		5.0	1.0	mg/L			04/11/13 20:12	5
Ammonia as N	0.13		0.050	0.026	mg/L			04/06/13 09:33	1
Total Dissolved Solids	190		10	10	mg/L			04/10/13 12:38	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.35				SU			04/04/13 10:19	1
Field Temperature	24.40				Degrees C			04/04/13 10:19	1
Oxygen, Dissolved	0.11				mg/L			04/04/13 10:19	1
Specific Conductance	299				umhos/cm			04/04/13 10:19	1
Turbidity	0.07				NTU			04/04/13 10:19	1

## Client Sample ID: TH-40

Date Collected: 04/05/13 09:36

Date Received: 04/05/13 16:10

## Lab Sample ID: 660-53644-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:34	1
Iron	50	U	200	50	ug/L		04/10/13 07:22	04/10/13 18:34	1
Sodium	16		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:34	1

TestAmerica Tampa

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: TH-40**

**Date Collected: 04/05/13 09:36**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-1**

**Matrix: Ground Water**

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		5.0	1.0	mg/L			04/13/13 21:33	5
Ammonia as N	0.37		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	220		5.0	5.0	mg/L			04/11/13 11:46	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.25				SU			04/05/13 09:36	1
Field Temperature	23.43				Degrees C			04/05/13 09:36	1
Oxygen, Dissolved	0.35				mg/L			04/05/13 09:36	1
Specific Conductance	279				umhos/cm			04/05/13 09:36	1
Turbidity	0.15				NTU			04/05/13 09:36	1

**Client Sample ID: TH-57**

**Date Collected: 04/05/13 10:04**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-2**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:37	1
Iron	300		200	50	ug/L		04/10/13 07:22	04/10/13 18:37	1
Sodium	11		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:37	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		5.0	1.0	mg/L			04/13/13 21:46	5
Ammonia as N	0.94		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	90		5.0	5.0	mg/L			04/11/13 11:46	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.87				SU			04/05/13 10:04	1
Field Temperature	26.08				Degrees C			04/05/13 10:04	1
Oxygen, Dissolved	0.25				mg/L			04/05/13 10:04	1
Specific Conductance	119				umhos/cm			04/05/13 10:04	1
Turbidity	0.45				NTU			04/05/13 10:04	1

**Client Sample ID: TH-74**

**Date Collected: 04/05/13 10:32**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-3**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:40	1
Iron	20000		200	50	ug/L		04/10/13 07:22	04/10/13 18:40	1
Sodium	16		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:40	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		5.0	1.0	mg/L			04/13/13 22:23	5
Ammonia as N	1.9		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	210		5.0	5.0	mg/L			04/11/13 11:46	1

TestAmerica Tampa

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Client Sample ID: TH-74

Date Collected: 04/05/13 10:32

Date Received: 04/05/13 16:10

## Lab Sample ID: 660-53644-3

Matrix: Ground Water

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.34				SU			04/05/13 10:32	1
Field Temperature	20.75				Degrees C			04/05/13 10:32	1
Oxygen, Dissolved	0.38				mg/L			04/05/13 10:32	1
Specific Conductance	273				umhos/cm			04/05/13 10:32	1
Turbidity	5.85				NTU			04/05/13 10:32	1

## Client Sample ID: TH-75

Date Collected: 04/05/13 11:01

Date Received: 04/05/13 16:10

## Lab Sample ID: 660-53644-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8	I	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:44	1
Iron	7300		200	50	ug/L		04/10/13 07:22	04/10/13 18:44	1
Sodium	14		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:44	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22		5.0	1.0	mg/L			04/13/13 22:35	5
Ammonia as N	1.7		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	180		5.0	5.0	mg/L			04/11/13 11:46	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.34				SU			04/05/13 11:01	1
Field Temperature	21.08				Degrees C			04/05/13 11:01	1
Oxygen, Dissolved	0.25				mg/L			04/05/13 11:01	1
Specific Conductance	245				umhos/cm			04/05/13 11:01	1
Turbidity	4.92				NTU			04/05/13 11:01	1

## Client Sample ID: TH-30

Date Collected: 04/05/13 11:39

Date Received: 04/05/13 16:10

## Lab Sample ID: 660-53644-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 18:47	1
Iron	480		200	50	ug/L		04/10/13 07:22	04/10/13 18:47	1
Sodium	36		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:47	1

### General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	170		5.0	1.0	mg/L			04/13/13 22:48	5
Ammonia as N	2.9		0.25	0.13	mg/L			04/11/13 15:32	5
Total Dissolved Solids	390		10	10	mg/L			04/11/13 11:46	1

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.24				SU			04/05/13 11:39	1
Field Temperature	23.75				Degrees C			04/05/13 11:39	1
Oxygen, Dissolved	0.15				mg/L			04/05/13 11:39	1

TestAmerica Tampa

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: TH-30**

**Date Collected: 04/05/13 11:39**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-5**

**Matrix: Ground Water**

## Method: Field Sampling - Field Sampling (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	475				umhos/cm			04/05/13 11:39	1
Turbidity	1.34				NTU			04/05/13 11:39	1

**Client Sample ID: TH-58**

**Date Collected: 04/05/13 12:17**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-6**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		10	4.0	ug/L		04/10/13 07:22	04/10/13 18:57	1
Iron	4100		200	50	ug/L		04/10/13 07:22	04/10/13 18:57	1
Sodium	15		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 18:57	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17		5.0	1.0	mg/L			04/13/13 23:12	5
Ammonia as N	1.3		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	210		5.0	5.0	mg/L			04/11/13 11:46	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.95				SU			04/05/13 12:17	1
Field Temperature	25.26				Degrees C			04/05/13 12:17	1
Oxygen, Dissolved	6.32				mg/L			04/05/13 12:17	1
Specific Conductance	288				umhos/cm			04/05/13 12:17	1
Turbidity	1.41				NTU			04/05/13 12:17	1

**Client Sample ID: TH-73**

**Date Collected: 04/05/13 12:43**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-7**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 19:00	1
Iron	3400		200	50	ug/L		04/10/13 07:22	04/10/13 19:00	1
Sodium	20		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 19:00	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53		5.0	1.0	mg/L			04/13/13 23:25	5
Ammonia as N	1.1		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	140		5.0	5.0	mg/L			04/11/13 11:46	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.73				SU			04/05/13 12:43	1
Field Temperature	24.42				Degrees C			04/05/13 12:43	1
Oxygen, Dissolved	0.20				mg/L			04/05/13 12:43	1
Specific Conductance	191				umhos/cm			04/05/13 12:43	1
Turbidity	2.49				NTU			04/05/13 12:43	1

TestAmerica Tampa

# Client Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: P-18S**

**Date Collected: 04/05/13 13:54**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-8**

**Matrix: Ground Water**

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 19:03	1
Iron	2300		200	50	ug/L		04/10/13 07:22	04/10/13 19:03	1
Sodium	9.8		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 19:03	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		5.0	1.0	mg/L			04/13/13 23:37	5
Ammonia as N	1.1		0.050	0.026	mg/L			04/11/13 15:06	1
Total Dissolved Solids	130		5.0	5.0	mg/L			04/11/13 11:46	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.59				SU			04/05/13 13:54	1
Field Temperature	27.14				Degrees C			04/05/13 13:54	1
Oxygen, Dissolved	0.21				mg/L			04/05/13 13:54	1
Specific Conductance	144				umhos/cm			04/05/13 13:54	1
Turbidity	19.7				NTU			04/05/13 13:54	1

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

**Date Collected: 04/05/13 13:11**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-9**

**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		04/10/13 07:22	04/10/13 19:06	1
Iron	3400		200	50	ug/L		04/10/13 07:22	04/10/13 19:06	1
Sodium	26		0.50	0.31	mg/L		04/10/13 07:22	04/10/13 19:06	1

## General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67		5.0	1.0	mg/L			04/13/13 23:50	5
Ammonia as N	2.9		0.10	0.052	mg/L			04/11/13 16:01	2
Total Dissolved Solids	200		5.0	5.0	mg/L			04/11/13 11:46	1

## Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.91				SU			04/05/13 13:11	1
Field Temperature	26.41				Degrees C			04/05/13 13:11	1
Oxygen, Dissolved	0.32				mg/L			04/05/13 13:11	1
Specific Conductance	244				umhos/cm			04/05/13 13:11	1
Turbidity	0.66				NTU			04/05/13 13:11	1

TestAmerica Tampa



# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-136199/1-A

Matrix: Water

Analysis Batch: 136211

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 136199

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/08/13 08:18	04/08/13 16:36	1
Iron	50	U	200	50	ug/L		04/08/13 08:18	04/08/13 16:36	1
Sodium	0.31	U	0.50	0.31	mg/L		04/08/13 08:18	04/08/13 16:36	1

Lab Sample ID: LCS 660-136199/2-A

Matrix: Water

Analysis Batch: 136211

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 136199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1010		ug/L		101	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Sodium	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: 640-43031-D-4-B MS

Matrix: Water

Analysis Batch: 136211

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 136199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0		1000	1020		ug/L		102	80 - 120
Iron	140		1000	1160		ug/L		103	80 - 120
Sodium	1.3		10.0	11.7		mg/L		104	80 - 120

Lab Sample ID: 640-43031-D-4-C MSD

Matrix: Water

Analysis Batch: 136211

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 136199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0		1000	1030		ug/L		103	80 - 120	0	20
Iron	140		1000	1180		ug/L		105	80 - 120	1	20
Sodium	1.3		10.0	11.7		mg/L		104	80 - 120	0	20

Lab Sample ID: MB 660-136283/1-A

Matrix: Water

Analysis Batch: 136290

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 136283

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		04/10/13 07:22	04/10/13 17:39	1
Iron	50	U	200	50	ug/L		04/10/13 07:22	04/10/13 17:39	1
Sodium	0.31	U	0.50	0.31	mg/L		04/10/13 07:22	04/10/13 17:39	1

Lab Sample ID: LCS 660-136283/2-A

Matrix: Water

Analysis Batch: 136290

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 136283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1040		ug/L		104	80 - 120
Iron	1000	967		ug/L		97	80 - 120
Sodium	10.0	9.95		mg/L		100	80 - 120

TestAmerica Tampa

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

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

Lab Sample ID: 660-53596-2 MS

Matrix: Water

Analysis Batch: 136290

Client Sample ID: TH-19

Prep Type: Total Recoverable

Prep Batch: 136283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1070		ug/L		107	80 - 120
Iron	50	U	1000	974		ug/L		97	80 - 120
Sodium	14		10.0	24.4		mg/L		104	80 - 120

Lab Sample ID: 660-53596-2 MSD

Matrix: Water

Analysis Batch: 136290

Client Sample ID: TH-19

Prep Type: Total Recoverable

Prep Batch: 136283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1070		ug/L		107	80 - 120	0	20
Iron	50	U	1000	983		ug/L		98	80 - 120	1	20
Sodium	14		10.0	24.5		mg/L		106	80 - 120	1	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-272854/2

Matrix: Water

Analysis Batch: 272854

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			04/11/13 18:08	5

Lab Sample ID: LCS 680-272854/3

Matrix: Water

Analysis Batch: 272854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-272854/4

Matrix: Water

Analysis Batch: 272854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	49.6		mg/L		99	90 - 110	0	30

Lab Sample ID: 660-53611-1 MS

Matrix: Ground Water

Analysis Batch: 272854

Client Sample ID: SUPPLY 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.4		50.0	60.9		mg/L		103	90 - 110

Lab Sample ID: 660-53611-1 MSD

Matrix: Ground Water

Analysis Batch: 272854

Client Sample ID: SUPPLY 1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.4		50.0	60.7		mg/L		103	90 - 110	0	30

TestAmerica Tampa

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 680-273052/2

Matrix: Water

Analysis Batch: 273052

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.0	U	5.0	1.0	mg/L			04/13/13 19:17	5

Lab Sample ID: LCS 680-273052/3

Matrix: Water

Analysis Batch: 273052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.5		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-273052/4

Matrix: Water

Analysis Batch: 273052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	50.0	49.2		mg/L		98	90 - 110	1	30

Lab Sample ID: 660-53644-5 MS

Matrix: Ground Water

Analysis Batch: 273052

Client Sample ID: TH-30

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	170		50.0	224		mg/L		100	90 - 110

Lab Sample ID: 680-88920-I-4 MS

Matrix: Water

Analysis Batch: 273052

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	79		100	182		mg/L		103	90 - 110

Lab Sample ID: 680-88920-I-4 MSD

Matrix: Water

Analysis Batch: 273052

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	79		100	180		mg/L		101	90 - 110	1	30

## Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-272100/23

Matrix: Water

Analysis Batch: 272100

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.026	U	0.050	0.026	mg/L			04/05/13 10:46	1

TestAmerica Tampa

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

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

Lab Sample ID: LCS 680-272100/22

Matrix: Water

Analysis Batch: 272100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.02		mg/L		101	90 - 110

Lab Sample ID: 680-88920-E-5 MS

Matrix: Water

Analysis Batch: 272100

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.059	J3	1.00	0.952	J3	mg/L		89	90 - 110

Lab Sample ID: 680-88920-E-5 MSD

Matrix: Water

Analysis Batch: 272100

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.059	J3	1.00	0.943	J3	mg/L		88	90 - 110	1	30

Lab Sample ID: 640-42989-A-6 DU

Matrix: Water

Analysis Batch: 272100

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.079			0.0677		mg/L				16	30

Lab Sample ID: MB 680-272157/2

Matrix: Water

Analysis Batch: 272157

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.026	U	0.050	0.026	mg/L			04/06/13 09:16	1

Lab Sample ID: LCS 680-272157/1

Matrix: Water

Analysis Batch: 272157

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 680-88969-F-1 MS

Matrix: Water

Analysis Batch: 272157

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	0.049	I J3	1.00	0.647	J3	mg/L		60	90 - 110

Lab Sample ID: 680-88969-F-1 MSD

Matrix: Water

Analysis Batch: 272157

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	0.049	I J3	1.00	0.652	J3	mg/L		60	90 - 110	1	30

TestAmerica Tampa

# QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

Lab Sample ID: 640-43015-B-3 DU

Matrix: Water

Analysis Batch: 272157

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia as N	0.032	I	0.0358	I	mg/L		10	30

Lab Sample ID: MB 680-272772/2

Matrix: Water

Analysis Batch: 272772

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.026	U	0.050	0.026	mg/L			04/11/13 14:56	1

Lab Sample ID: LCS 680-272772/1

Matrix: Water

Analysis Batch: 272772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 660-53557-C-5 MS

Matrix: Water

Analysis Batch: 272772

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	7.7		1.00	8.74		mg/L		100	90 - 110

Lab Sample ID: 660-53557-C-5 MSD

Matrix: Water

Analysis Batch: 272772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Ammonia as N	7.7		1.00	8.80		mg/L		105	90 - 110	1	30

Lab Sample ID: 640-43043-J-9 DU

Matrix: Water

Analysis Batch: 272772

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia as N	2.4		2.28		mg/L		4	30

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

Lab Sample ID: MB 660-136303/1

Matrix: Water

Analysis Batch: 136303

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			04/10/13 12:38	1

TestAmerica Tampa

## QC Sample Results

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

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

Lab Sample ID: LCS 660-136303/2

Matrix: Water

Analysis Batch: 136303

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	10000	9900		mg/L		99	80 - 120

Lab Sample ID: 660-53596-2 DU

Matrix: Water

Analysis Batch: 136303

Client Sample ID: TH-19

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	210		208		mg/L		0	20

Lab Sample ID: MB 660-136352/1

Matrix: Water

Analysis Batch: 136352

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			04/11/13 11:46	1

Lab Sample ID: LCS 660-136352/2

Matrix: Water

Analysis Batch: 136352

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: 660-53644-5 DU

Matrix: Ground Water

Analysis Batch: 136352

Client Sample ID: TH-30

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	390		384		mg/L		2	20



# QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Metals

### Prep Batch: 136199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-43031-D-4-B MS	Matrix Spike	Total Recoverable	Water	3005A	
640-43031-D-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-53611-1	SUPPLY 1	Total Recoverable	Ground Water	3005A	
660-53611-2	SUPPLY 2	Total Recoverable	Ground Water	3005A	
LCS 660-136199/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-136199/1-A	Method Blank	Total Recoverable	Water	3005A	

### Analysis Batch: 136211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-43031-D-4-B MS	Matrix Spike	Total Recoverable	Water	6010B	136199
640-43031-D-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	136199
660-53611-1	SUPPLY 1	Total Recoverable	Ground Water	6010B	136199
660-53611-2	SUPPLY 2	Total Recoverable	Ground Water	6010B	136199
LCS 660-136199/2-A	Lab Control Sample	Total Recoverable	Water	6010B	136199
MB 660-136199/1-A	Method Blank	Total Recoverable	Water	6010B	136199

### Prep Batch: 136283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53596-1	BLANK EQUIPMENT 53596	Total Recoverable	Ground Water	3005A	
660-53596-2	TH-19	Total Recoverable	Water	3005A	
660-53596-2 MS	TH-19	Total Recoverable	Water	3005A	
660-53596-2 MSD	TH-19	Total Recoverable	Water	3005A	
660-53596-3	TH-42	Total Recoverable	Ground Water	3005A	
660-53596-4	TH-72	Total Recoverable	Ground Water	3005A	
660-53596-5	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	3005A	
660-53644-1	TH-40	Total Recoverable	Ground Water	3005A	
660-53644-2	TH-57	Total Recoverable	Ground Water	3005A	
660-53644-3	TH-74	Total Recoverable	Ground Water	3005A	
660-53644-4	TH-75	Total Recoverable	Ground Water	3005A	
660-53644-5	TH-30	Total Recoverable	Ground Water	3005A	
660-53644-6	TH-58	Total Recoverable	Ground Water	3005A	
660-53644-7	TH-73	Total Recoverable	Ground Water	3005A	
660-53644-8	P-18S	Total Recoverable	Ground Water	3005A	
660-53644-9	TH-28A	Total Recoverable	Ground Water	3005A	
LCS 660-136283/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-136283/1-A	Method Blank	Total Recoverable	Water	3005A	

### Analysis Batch: 136290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53596-1	BLANK EQUIPMENT 53596	Total Recoverable	Ground Water	6010B	136283
660-53596-2	TH-19	Total Recoverable	Water	6010B	136283
660-53596-2 MS	TH-19	Total Recoverable	Water	6010B	136283
660-53596-2 MSD	TH-19	Total Recoverable	Water	6010B	136283
660-53596-3	TH-42	Total Recoverable	Ground Water	6010B	136283
660-53596-4	TH-72	Total Recoverable	Ground Water	6010B	136283
660-53596-5	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	6010B	136283
660-53644-1	TH-40	Total Recoverable	Ground Water	6010B	136283
660-53644-2	TH-57	Total Recoverable	Ground Water	6010B	136283
660-53644-3	TH-74	Total Recoverable	Ground Water	6010B	136283
660-53644-4	TH-75	Total Recoverable	Ground Water	6010B	136283
660-53644-5	TH-30	Total Recoverable	Ground Water	6010B	136283

TestAmerica Tampa

## QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Metals (Continued)

#### Analysis Batch: 136290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53644-6	TH-58	Total Recoverable	Ground Water	6010B	136283
660-53644-7	TH-73	Total Recoverable	Ground Water	6010B	136283
660-53644-8	P-18S	Total Recoverable	Ground Water	6010B	136283
660-53644-9	TH-28A	Total Recoverable	Ground Water	6010B	136283
LCS 660-136283/2-A	Lab Control Sample	Total Recoverable	Water	6010B	136283
MB 660-136283/1-A	Method Blank	Total Recoverable	Water	6010B	136283

### General Chemistry

#### Analysis Batch: 136303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53596-1	BLANK EQUIPMENT 53596	Total/NA	Ground Water	SM 2540C	
660-53596-2	TH-19	Total/NA	Water	SM 2540C	
660-53596-2 DU	TH-19	Total/NA	Water	SM 2540C	
660-53596-3	TH-42	Total/NA	Ground Water	SM 2540C	
660-53596-4	TH-72	Total/NA	Ground Water	SM 2540C	
660-53596-5	DUPLICATE NOT BLANK	Total/NA	Ground Water	SM 2540C	
660-53611-1	SUPPLY 1	Total/NA	Ground Water	SM 2540C	
660-53611-2	SUPPLY 2	Total/NA	Ground Water	SM 2540C	
LCS 660-136303/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-136303/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 136352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53644-1	TH-40	Total/NA	Ground Water	SM 2540C	
660-53644-2	TH-57	Total/NA	Ground Water	SM 2540C	
660-53644-3	TH-74	Total/NA	Ground Water	SM 2540C	
660-53644-4	TH-75	Total/NA	Ground Water	SM 2540C	
660-53644-5	TH-30	Total/NA	Ground Water	SM 2540C	
660-53644-5 DU	TH-30	Total/NA	Ground Water	SM 2540C	
660-53644-6	TH-58	Total/NA	Ground Water	SM 2540C	
660-53644-7	TH-73	Total/NA	Ground Water	SM 2540C	
660-53644-8	P-18S	Total/NA	Ground Water	SM 2540C	
660-53644-9	TH-28A	Total/NA	Ground Water	SM 2540C	
LCS 660-136352/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-136352/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 272100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-42989-A-6 DU	Duplicate	Total/NA	Water	350.1	
660-53596-1	BLANK EQUIPMENT 53596	Total/NA	Ground Water	350.1	
660-53596-2	TH-19	Total/NA	Water	350.1	
660-53596-3	TH-42	Total/NA	Ground Water	350.1	
660-53596-4	TH-72	Total/NA	Ground Water	350.1	
660-53596-5	DUPLICATE NOT BLANK	Total/NA	Ground Water	350.1	
680-88920-E-5 MS	Matrix Spike	Total/NA	Water	350.1	
680-88920-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
LCS 680-272100/22	Lab Control Sample	Total/NA	Water	350.1	
MB 680-272100/23	Method Blank	Total/NA	Water	350.1	

TestAmerica Tampa

# QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## General Chemistry (Continued)

### Analysis Batch: 272157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-43015-B-3 DU	Duplicate	Total/NA	Water	350.1	
660-53611-1	SUPPLY 1	Total/NA	Ground Water	350.1	
660-53611-2	SUPPLY 2	Total/NA	Ground Water	350.1	
680-88969-F-1 MS	Matrix Spike	Total/NA	Water	350.1	
680-88969-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
LCS 680-272157/1	Lab Control Sample	Total/NA	Water	350.1	
MB 680-272157/2	Method Blank	Total/NA	Water	350.1	

### Analysis Batch: 272772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-43043-J-9 DU	Duplicate	Total/NA	Water	350.1	
660-53557-C-5 MS	Matrix Spike	Total/NA	Water	350.1	
660-53557-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-53644-1	TH-40	Total/NA	Ground Water	350.1	
660-53644-2	TH-57	Total/NA	Ground Water	350.1	
660-53644-3	TH-74	Total/NA	Ground Water	350.1	
660-53644-4	TH-75	Total/NA	Ground Water	350.1	
660-53644-5	TH-30	Total/NA	Ground Water	350.1	
660-53644-6	TH-58	Total/NA	Ground Water	350.1	
660-53644-7	TH-73	Total/NA	Ground Water	350.1	
660-53644-8	P-18S	Total/NA	Ground Water	350.1	
660-53644-9	TH-28A	Total/NA	Ground Water	350.1	
LCS 680-272772/1	Lab Control Sample	Total/NA	Water	350.1	
MB 680-272772/2	Method Blank	Total/NA	Water	350.1	

### Analysis Batch: 272854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53611-1	SUPPLY 1	Total/NA	Ground Water	300.0	
660-53611-1 MS	SUPPLY 1	Total/NA	Ground Water	300.0	
660-53611-1 MSD	SUPPLY 1	Total/NA	Ground Water	300.0	
660-53611-2	SUPPLY 2	Total/NA	Ground Water	300.0	
LCS 680-272854/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-272854/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-272854/2	Method Blank	Total/NA	Water	300.0	

### Analysis Batch: 273052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53596-1	BLANK EQUIPMENT 53596	Total/NA	Ground Water	300.0	
660-53596-2	TH-19	Total/NA	Water	300.0	
660-53596-3	TH-42	Total/NA	Ground Water	300.0	
660-53596-4	TH-72	Total/NA	Ground Water	300.0	
660-53596-5	DUPLICATE NOT BLANK	Total/NA	Ground Water	300.0	
660-53644-1	TH-40	Total/NA	Ground Water	300.0	
660-53644-2	TH-57	Total/NA	Ground Water	300.0	
660-53644-3	TH-74	Total/NA	Ground Water	300.0	
660-53644-4	TH-75	Total/NA	Ground Water	300.0	
660-53644-5	TH-30	Total/NA	Ground Water	300.0	
660-53644-5 MS	TH-30	Total/NA	Ground Water	300.0	
660-53644-6	TH-58	Total/NA	Ground Water	300.0	
660-53644-7	TH-73	Total/NA	Ground Water	300.0	
660-53644-8	P-18S	Total/NA	Ground Water	300.0	

TestAmerica Tampa

## QC Association Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### General Chemistry (Continued)

#### Analysis Batch: 273052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53644-9	TH-28A	Total/NA	Ground Water	300.0	
680-88920-I-4 MS	Matrix Spike	Total/NA	Water	300.0	
680-88920-I-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 680-273052/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-273052/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-273052/2	Method Blank	Total/NA	Water	300.0	

### Field Service / Mobile Lab

#### Analysis Batch: 136212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53596-2	TH-19	Total/NA	Water	Field Sampling	
660-53596-3	TH-42	Total/NA	Ground Water	Field Sampling	
660-53596-4	TH-72	Total/NA	Ground Water	Field Sampling	
660-53611-1	SUPPLY 1	Total/NA	Ground Water	Field Sampling	
660-53611-2	SUPPLY 2	Total/NA	Ground Water	Field Sampling	

#### Analysis Batch: 136383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-53644-1	TH-40	Total/NA	Ground Water	Field Sampling	
660-53644-2	TH-57	Total/NA	Ground Water	Field Sampling	
660-53644-3	TH-74	Total/NA	Ground Water	Field Sampling	
660-53644-4	TH-75	Total/NA	Ground Water	Field Sampling	
660-53644-5	TH-30	Total/NA	Ground Water	Field Sampling	
660-53644-6	TH-58	Total/NA	Ground Water	Field Sampling	
660-53644-7	TH-73	Total/NA	Ground Water	Field Sampling	
660-53644-8	P-18S	Total/NA	Ground Water	Field Sampling	
660-53644-9	TH-28A	Total/NA	Ground Water	Field Sampling	

# Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: BLANK EQUIPMENT 53596**

**Lab Sample ID: 660-53596-1**

Date Collected: 04/03/13 11:11

Matrix: Ground Water

Date Received: 04/03/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:01	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	272100	04/05/13 10:38	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 20:31	PAT	TAL SAV

**Client Sample ID: TH-19**

**Lab Sample ID: 660-53596-2**

Date Collected: 04/03/13 11:28

Matrix: Water

Date Received: 04/03/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 17:49	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	272100	04/05/13 10:38	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 20:44	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136212	04/03/13 11:28		TAL TAM

**Client Sample ID: TH-42**

**Lab Sample ID: 660-53596-3**

Date Collected: 04/03/13 12:22

Matrix: Ground Water

Date Received: 04/03/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:05	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	272100	04/05/13 10:38	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 20:56	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136212	04/03/13 12:22		TAL TAM

**Client Sample ID: TH-72**

**Lab Sample ID: 660-53596-4**

Date Collected: 04/03/13 14:25

Matrix: Ground Water

Date Received: 04/03/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:08	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		10	272100	04/05/13 11:04	JE	TAL SAV
Total/NA	Analysis	300.0		10	273052	04/13/13 21:08	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136212	04/03/13 14:25		TAL TAM

TestAmerica Tampa

# Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

## Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-53596-5

Date Collected: 04/03/13 00:00

Matrix: Ground Water

Date Received: 04/03/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:18	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	272100	04/05/13 10:46	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 21:21	PAT	TAL SAV

## Client Sample ID: SUPPLY 1

Lab Sample ID: 660-53611-1

Date Collected: 04/04/13 11:00

Matrix: Ground Water

Date Received: 04/04/13 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136199	04/08/13 08:18	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136211	04/08/13 17:25	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	272157	04/06/13 09:33	RW	TAL SAV
Total/NA	Analysis	300.0		5	272854	04/11/13 19:34	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136212	04/04/13 11:00		TAL TAM

## Client Sample ID: SUPPLY 2

Lab Sample ID: 660-53611-2

Date Collected: 04/04/13 10:19

Matrix: Ground Water

Date Received: 04/04/13 13:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136199	04/08/13 08:18	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136211	04/08/13 17:28	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136303	04/10/13 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	272157	04/06/13 09:33	RW	TAL SAV
Total/NA	Analysis	300.0		5	272854	04/11/13 20:12	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136212	04/04/13 10:19		TAL TAM

## Client Sample ID: TH-40

Lab Sample ID: 660-53644-1

Date Collected: 04/05/13 09:36

Matrix: Ground Water

Date Received: 04/05/13 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:34	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 21:33	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 09:36		TAL TAM

TestAmerica Tampa

# Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: TH-57**

**Date Collected: 04/05/13 10:04**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-2**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:37	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 21:46	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 10:04		TAL TAM

**Client Sample ID: TH-74**

**Date Collected: 04/05/13 10:32**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-3**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:40	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 22:23	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 10:32		TAL TAM

**Client Sample ID: TH-75**

**Date Collected: 04/05/13 11:01**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-4**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:44	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 22:35	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 11:01		TAL TAM

**Client Sample ID: TH-30**

**Date Collected: 04/05/13 11:39**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-5**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:47	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		5	272772	04/11/13 15:32	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 22:48	PAT	TAL SAV

TestAmerica Tampa



# Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

**Client Sample ID: TH-30**

**Date Collected: 04/05/13 11:39**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-5**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 11:39		TAL TAM

**Client Sample ID: TH-58**

**Date Collected: 04/05/13 12:17**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-6**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 18:57	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 23:12	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 12:17		TAL TAM

**Client Sample ID: TH-73**

**Date Collected: 04/05/13 12:43**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-7**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 19:00	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 23:25	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 12:43		TAL TAM

**Client Sample ID: P-18S**

**Date Collected: 04/05/13 13:54**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-8**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 19:03	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		1	272772	04/11/13 15:06	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 23:37	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 13:54		TAL TAM

TestAmerica Tampa

## Lab Chronicle

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

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

**Date Collected: 04/05/13 13:11**

**Date Received: 04/05/13 16:10**

**Lab Sample ID: 660-53644-9**

**Matrix: Ground Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			136283	04/10/13 07:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	136290	04/10/13 19:06	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	136352	04/11/13 11:46	TO	TAL TAM
Total/NA	Analysis	350.1		2	272772	04/11/13 16:01	JE	TAL SAV
Total/NA	Analysis	300.0		5	273052	04/13/13 23:50	PAT	TAL SAV
Total/NA	Analysis	Field Sampling		1	136383	04/05/13 13:11		TAL TAM

### Laboratory References:

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

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

## Method Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

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

### Protocol References:

EPA = US Environmental Protection Agency

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

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

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

### Laboratory References:

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

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

## Certification Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

TestAmerica Job ID: 660-53596-1

### Laboratory: TestAmerica Tampa

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

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

### Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Tampa

## Certification Summary

Client: Hillsborough County Public Utilities Dep  
Project/Site: SELF -IAMP Monitoring Wells

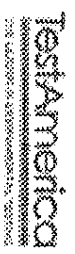
TestAmerica Job ID: 660-53596-1

### Laboratory: TestAmerica Savannah (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Wyoming	State Program	8	8TMS-Q	06-30-13

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

660-53644

Serial Number

TestAmerica Tampa  
6712 Benjamin Rd, Suite 100  
Tampa, FL 33634  
Phone: (813) 885 7427  
Fax: (813) 885 7049  
www.testamericainc.com

Alternate Laboratory Name/Location:

Phone:  
Fax:

PROJECT REFERENCE		PROJECT NO.	PROJECT LOCATION	MATRIX TYPE	ANALYSIS REQUEST			PAGE	OF
SELF-IAMP Monitoring Wells			Lithia, FL		H2SO4	Ammonia-N			
TESTAMERICA (LAB) PROJECT MANAGER		P.O. NUMBER	CONTRACT NO.		ice	TDS			
Nancy Robertson					ice	Chloride			
CLIENT (SITE) PM		CLIENT PHONE	CLIENT FAX		HNO3	As, Fe, Na			
Michael Townsend		(813) 663-3222	(813) 274-6801						
CLIENT NAME		CLIENT EMAIL							
Hills County Public Utilities		townselm@hillsboroughcounty.org							
CLIENT ADDRESS									
332 North Falkenburg Road									
COMPANY CONTRACTING THIS WORK									
SAMPLE DATE		SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE	NUMBER OF CONTAINERS SUBMITTED			REMARKS	
DATE	TIME								
4-5-13	9:36	TH-40		G X	X	X	X		
4-5-13	10:04	TH-57		G X					
4-5-13	10:32	TH-74		G X					
4-5-13	11:01	TH-75		G X					
4-5-13	11:39	TH-30		G X					
4-5-13	12:17	TH-58		G X					
4-5-13	12:43	TH-73		G X					
4-5-13	1:54	P-18 S		G X					
4-5-13	1:11	TH-28A		G X					
		TH-8-13							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
<i>[Signature]</i>		4-5-13	1610						
RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
<i>[Signature]</i>		4-5-13	1610	<i>[Signature]</i>	4/5/13	1610			
LABORATORY USE ONLY									
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT YES NO	CUSTODY SEAL NO.	STL LOG NO.	LABORATORY REMARKS		
<i>[Signature]</i>				YES 8 NO			No. 8 e 60 07 David Bondfield		

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Age	Number of people
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Age	Number of people
1	1
2	2
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Age	Number of people
1	1
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Age	Number of people
1	1
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Age	Number of people
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Age	Number of people
1	1
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Age	Number of people
1	1
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Age	Number of people
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<b>MATERIAL CODES:</b>	<b>AG</b> = Amber Glass;	<b>CG</b> = Clear Glass;	<b>PE</b> = Polyethylene;	<b>PP</b> = Polypropylene;	<b>S</b> = Silicone;	<b>T</b> = Teflon;	<b>O</b> = Other (Specify)
<b>SAMPLING EQUIPMENT CODES:</b>	<b>APP</b> = After Peristaltic Pump; <b>B</b> = Bailer; <b>BP</b> = Bladder Pump; <b>ESP</b> = Electric Submersible Pump; <b>RFPP</b> = Reverse Flow Peristaltic Pump; <b>SM</b> = Straw Method (Tubing Gravity Drain); <b>O</b> = Other (Specify)						

pH:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $< 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)



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[illegible]

SAMPLED BY (PRINT) / AFFILIATION: Andrew Balloon / Michael Townsel				SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 11:01		SAMPLING ENDED AT: 11:01	
PUMP OR TUBING DEPTH IN WELL (feet): 16				TUBING MATERIAL CODE: PE			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N <input type="checkbox"/> (replaced)							DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
REMARKS: SEE C.O.C. FOR SAMPLE ANALYSIS										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Baller; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

4/17/2013

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[illegible]

**NOTES:** 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.  
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)  
**pH:**  $\pm 0.2$  units **Temperature:**  $\pm 0.2$  °C **Specific Conductance:**  $\pm 5\%$  **Dissolved Oxygen:** all readings  $\leq 20\%$  saturation (see Table FS 2200-2 optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) **Turbidity:** all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

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[illegible][illegible]

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

Revision Date: February 12, 2009



Age	Percentage
1	10%
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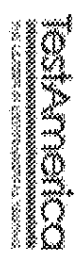
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Serial Number

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD



660-53596

TestAmerica Tampa  
6712 Benjamin Rd, Suite 100  
Tampa, FL 33634  
Phone: (813) 885 7427  
Fax: (813) 885 7049  
Alternate Laboratory Name/Location:  
Phone:  
Fax:

PROJECT REFERENCE SELF-JAMP Monitoring Wells		PROJECT NO.		PROJECT LOCATION Lithia, FL		MATRIX TYPE		STANDARD REPORT DELIVERY		DATE DUE	
TESTAMERICA (LAB) PROJECT MANAGER Nancy Robertson		P.O. NUMBER		CONTRACT NO.				EXPEDITED REPORT DELIVERY (surcharge)		DATE DUE	
CLIENT (SITE) PM Michael Townsend		CLIENT PHONE (813) 663-3222		CLIENT FAX (813) 274-6801							
CLIENT NAME Hills, County Public Utilities		CLIENT EMAIL townselm@hillsboroughcounty.org									
CLIENT ADDRESS 332 North Falkenburg Road		COMPANY CONTRACTING THIS WORK									
SAMPLE DATE		SAMPLE TIME		SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE		NUMBER OF CONTAINERS SUBMITTED		REMARKS	
4-3-13		1111		Equip. Blank		GX		X			
4-3-13		1128		TH-19		GX		X			
4-3-13		1222		TH-42		GX		X			
4-3-13		2:25		TH-72		GX		X			
4-3-13		---		DUPPLICATE		GX		X			
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME	
[Signature]		4-3-13		4:30		[Signature]					
RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME	
[Signature]		4/3/13		1630		[Signature]					
LABORATORY USE ONLY											
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE		TIME		CUSTODY INTACT YES NO		SEAL NO.		STL LOG NO.	
[Signature]						YES NO					
LABORATORY REMARKS: 2.3607											



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TestAmerica Tampa  
 6712 Benjamin Rd, Suite 100  
 Tampa, FL 33634  
 Alternate Laboratory Name/L

**www.testamericainc.com**  
**Phone: (813) 885 7427**  
**Fax: (813) 885 7049**

Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_FCU036:12.20.00:2

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# Chain of Custody Record

<b>Client Information (Sub Contract Lab)</b> Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 5102 LaRoche Avenue, Savannah, GA, 31404 Phone: 912-354-7858(Tel) 912-352-0165(Fax) Email: Project #: 66003915 Site: Southeast Landfill		Sampler: Lab PM: Robertson, Nancy Phone: E-Mail: nancy.robertson@testamericainc.com		Carrier Tracking No(s): COC No: 660-54551.1 Page: Page 1 of 1 Job #: 660-53596-1	
<b>Analysis Requested</b> Due Date Requested: 4/10/2013 TAT Requested (days): PO #: WO #: Project #: SSOW#:		<b>Preservation Codes:</b> A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Total Number of Containers</b>			
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=other) Preservation Code (BT=Tris, A=Alk)		Perform MS/MSD (Yes or No) 350.0 Nitrogen, Ammonia 300.0, 280/ Chloride		Special Instructions/Note:	
BLANK EQUIPMENT (660-53596-1) TH-19 (660-53596-2) TH-42 (660-53596-3) TH-72 (660-53596-4) DUPLICATE NOT BLANK (660-53596-5)		2 2 2 2 2		2 2 2 2 2	
<b>Possible Hazard Identification</b> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: <i>Edwards</i>		Date/Time: 4/14/13 1105		Company: <i>TH</i>	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 0.2°C			

4/17/2013

# Chain of Custody Record

<b>Client Information (Sub Contract Lab)</b> Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc. Address: 5102 LaRoche Avenue, Savannah, GA 31404 Phone: 912-354-7858(Tel) 912-352-0165(Fax) Email: Project Name: SELF MWs SS, Private Wells, NPDES Site: Southeast Landfill		Lab Pmt: Robertson, Nancy E-Mail: nancy.robertson@testamericainc.com Phone: Due Date Requested: 4/12/2013 TAT Requested (days): PO #: WO #: Project #: 66003915 SOW#:		COC No: 660-54636.1 Page: Page 1 of 1 Job #: 660-53644-1		Center Tracking Net(s): Analysis Requested:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2CO4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.0, 280/ Chloride	Total Number of Containers	Special Instructions/Note:	
TH-40 (660-53644-1)	4/5/13	09:36 Eastern	Water			X			2		
TH-57 (660-53644-2)	4/5/13	10:04 Eastern	Water			X			2		
TH-74 (660-53644-3)	4/5/13	10:32 Eastern	Water			X			2		
TH-75 (660-53644-4)	4/5/13	11:01 Eastern	Water			X			2		
TH-30 (660-53644-5)	4/5/13	11:39 Eastern	Water			X			2		
TH-58 (660-53644-6)	4/5/13	12:17 Eastern	Water			X			2		
TH-73 (660-53644-7)	4/5/13	12:43 Eastern	Water			X			2		
P-18S (660-53644-8)	4/5/13	13:54 Eastern	Water			X			2		
TH-28 (660-53644-9)	4/5/13	13:11 Eastern	Water			X			2		
<b>Possible Hazard Identification</b> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)											
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		1.6 °C					

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

Login Number: 53596

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

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

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

Login Number: 53596

List Source: TestAmerica Savannah

List Number: 1

List Creation: 04/05/13 08:14 AM

Creator: Conner, Keaton

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



## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

Login Number: 53611

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

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

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

**Login Number: 53611**

**List Source: TestAmerica Savannah**

**List Number: 1**

**List Creation: 04/05/13 08:15 AM**

**Creator: Conner, Keaton**

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



## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

Login Number: 53611

List Number: 2

Creator: McDonald, Debbie

List Source: TestAmerica Savannah

List Creation: 04/05/13 01:47 PM

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

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

Login Number: 53611

List Number: 3

Creator: McDonald, Debbie

List Source: TestAmerica Savannah

List Creation: 04/05/13 01:48 PM

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

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

**Login Number: 53644**

**List Source: TestAmerica Tampa**

**List Number: 1**

**Creator: Edwards, Erricka**

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

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

**Login Number: 53644**

**List Source: TestAmerica Savannah**

**List Number: 1**

**List Creation: 04/09/13 08:38 AM**

**Creator: Barnett, Eddie T**

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

## Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-53596-1

Login Number: 53644

List Number: 2

Creator: Etheridge, Jora

List Source: TestAmerica Savannah

List Creation: 04/12/13 12:49 PM

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