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July 11, 2012

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

**RE: Southeast County Landfill
Laboratory Analytical Results
Initial Assessment Monitoring Plan
Report No. 22**

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the monthly sampling event conducted as part of our continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole in Phase VI of the Southeast County Landfill (SCLF), which was discovered on December 14, 2010. The monthly sampling event was conducted on June 7-8, 2012, 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 for the groundwater monitoring wells and the on-site supply wells were analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters. The following paragraphs summarize the findings from this sampling event, and the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

Mr. John Morris, P.G.

July 11, 2012

Page 2

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 4.25 to 5.68 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 the four (4) upper Floridan groundwater monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and consistent with historical data for the site.

Turbidity

Turbidity values are generally low in the monitoring wells that have been part of the permit required sampling program at the SCLF. The County obtained a representative groundwater sample from the piezometer / monitoring well P-18S during this sampling event. The turbidity value at this location recorded was 16.3 nephelometric turbidity units (NTUs) which is within the Florida Department of Environmental Protection's Standard Operating Procedures (FDEP SOPs) of 20 NTU. Although the turbidity in P-18S was slightly under the standard, the County also collected a representative groundwater sample from the surficial aquifer groundwater monitoring well, TH-30.

Conductivity

The conductivity values in most of the groundwater monitoring wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. Surficial aquifer groundwater monitoring well TH-58 conductivity values have continued to decrease and during this monthly sampling event, the conductivity in TH-58 was 379 uhmos/cm.

The conductivity value observed in the surficial aquifer groundwater monitoring wells TH-73, TH-74 and TH-75 are 224, 334 and 702 umhos/cm, respectively. The lowest of the three is the closest to the sinkhole and the value increases moving away. This scenario appears to represent the slug of minor impacts from the grout materials placed earlier this year. Impacts remain in close proximity to the sinkhole within the surficial aquifer and are not observed within the deeper upper Floridan aquifer monitoring wells. The conductivity value observed in upper Floridan groundwater monitoring well TH-72 during this sampling event was 541 uhmos/cm, which is consistent with historical values.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring well TH-75 exhibited TDS at 480 mg/l, which is just below the SDWS of 500 mg/l. All other TDS values recorded during this IAMP sampling event are also within compliance.

Mr. John Morris, P.G.

July 11, 2012

Page 3

Chloride

Surficial aquifer groundwater monitoring wells TH-58 exhibited a chloride concentration of 36 mg/l, which is below the SDWS of 250 mg/l. This value appears to represent a continued decreasing trend in chloride from the past several IAMP sampling events. In addition, surficial aquifer groundwater monitoring wells TH-30 and TH-75 exhibited values of 130 mg/l and 140 mg/l, respectively.

Arsenic

The arsenic 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 over ten years. Although significant changes in water quality have recently been observed in TH-58, the arsenic values have continued to remain very stable. This observation continues to support the position that the arsenic is likely not attributable to the landfill or the sinkhole, but is likely naturally occurring within the soils surrounding the well and being mobilized in the anaerobic environment below the lined landfill.

Iron

Total iron concentrations in seven (7) surficial aquifer wells were observed above the SDWS of 0.3 mg/l. The concentrations of iron across the site ranged from below the detection limits to 20 mg/l. As previously discussed, the elevated iron concentrations observed in the surficial aquifer wells at specific locations across the site are likely naturally occurring and/or the result of past strip mining activities.

Total Ammonia

Ammonia concentrations in surficial aquifer wells TH-28A and TH-74 were observed at 3.1 and 3 mg/l, respectively, which is above the Groundwater Cleanup Target Level (GCTL) of 2.8 mg/l. The location of TH-28A is directly south of surficial well TH-73 and southwest of the sinkhole. The location of TH-74 is directly north-northwest of the sinkhole. The appearance of ammonia in TH-28 is a new development that first appeared in May 2012, and indicates minor impacts appear to be spreading to the southwest. All other groundwater monitoring wells were below the GCTL. The County will continue to closely evaluate this component of water quality in future IAMP sampling.

Conclusions

The water quality observed in the June 2012 sampling event continues to indicate the wells closest to the sinkhole have exhibited changes in water quality. Based on the proximity of the wells and the trends observed, it is apparent that these impacts are likely a result of the sinkhole and/or the grouting activities conducted as part of the investigation and initial remediation activities conducted at the site.

Mr. John Morris, P.G.
July 11, 2012
Page 4

Overall, water quality observations demonstrate significant improvement in the wells previously exhibiting impacts thought to be attributable to the sinkhole and/or the grout materials. The deeper upper Floridan aquifer monitoring wells continue to exhibit good water quality. The on-site supply wells continue to exhibit good water quality and no significant changes have been observed to date.

Recommendations

Based on the past year of monthly IAMP sampling and the significant overall improvement in water quality observed, the County recommends the IAMP sampling program be reduced to a quarterly schedule in the near future. The sampling of these wells could be performed in conjunction with the required quarterly sampling of the site. As discussed with the FDEP, the County intends to continue the monthly IAMP sampling schedule, further evaluate the compiled data set, and prepare the justification for the reduced sampling frequency.

Enclosed for your review please find a site location map depicting the on-site wells sampled, the water quality data summary table, a groundwater elevation data table, groundwater contour and flow diagram, and the complete analytical data report from our contracted laboratory, Test America, Inc. Should you have any questions or require any additional information please feel free to call me at (813) 272-5977, ext. 43944.

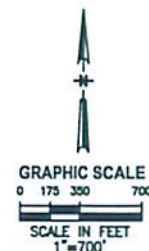
Respectfully submitted,



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



xc: John Lyons, Director, Public Works Department
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Steve Morgan, FDEP, Southwest District
Andy Schipfer, EPC
Ernest Ely, WM
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services



001 ▲ LEACHATE SAMPLING
LOCATION
P-15 @ SHALLOW PIEZOMETER
P-1D @ DEEP PIEZOMETER
SUP-1 ● SUPPLY WELL
TH-32 @ INACTIVE MONITORING WELL
LOCATION AND DESIGNATION
P-8D ● PIEZOMETER TO MONITOR
HYDRAULIC DIVIDE
1D □ SURFACE WATER
MONITORING SITE LOCATION
TH-22A ○ MONITORING SITE LOCATION
MONITOR WELL
* 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

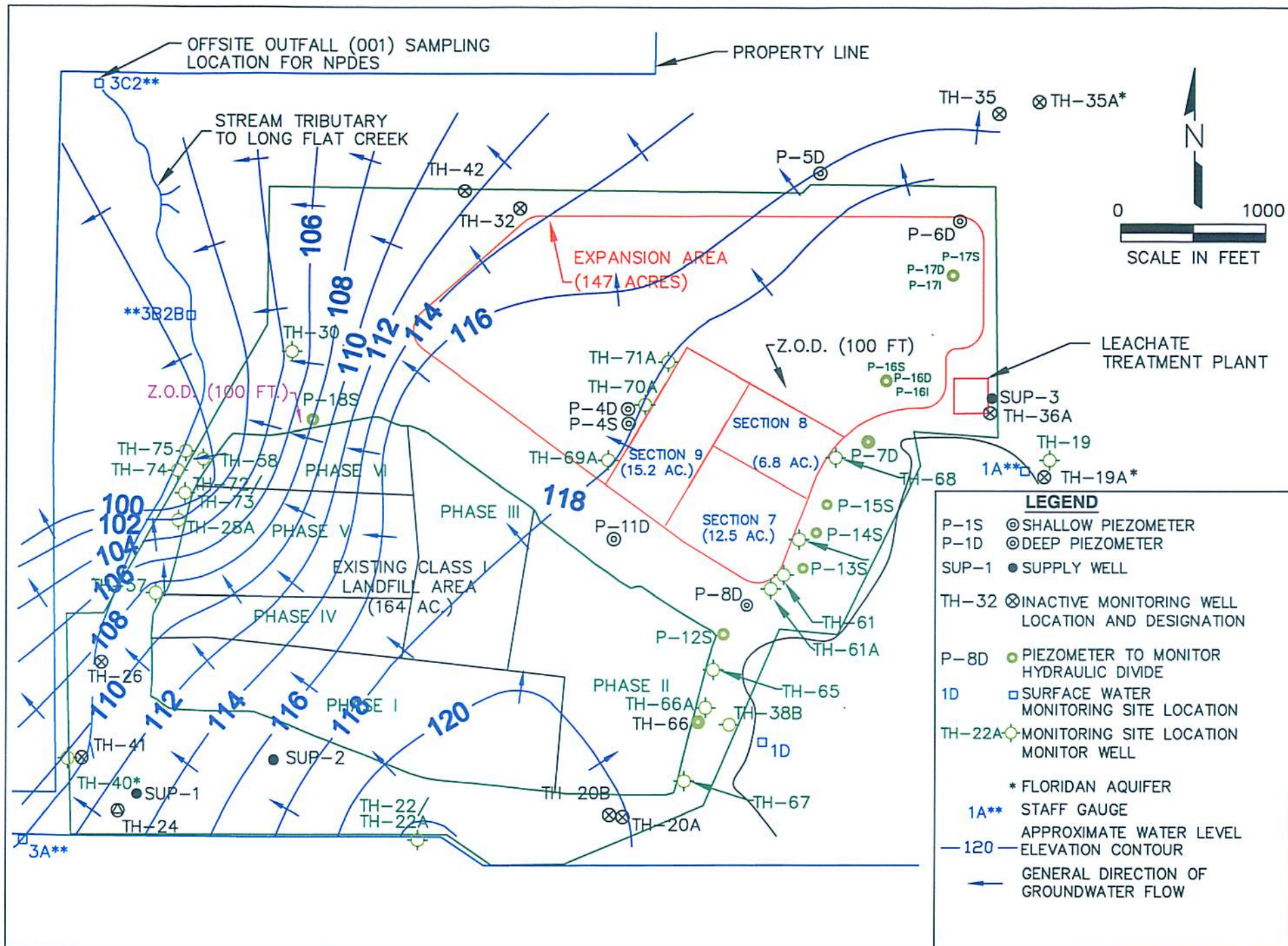
Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
June 7-8, 2012

GENERAL (mg/l)	Surficial Aquifer Wells								Upper Floridan Aquifer Wells						(MCL) STANDARD
PARAMETERS	P-18S	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	F.A.C. 62-550
conductivity (umhos/cm) (field)	142	274	430	127	379	224	334	702	379	382	476	541	292	304	NS
dissolved oxygen (mg/l) (field)	0.64	1.18	0.17	0.29	0.63	0.87	0.75	0.39	2.13	0.75	1.54	0.72	0.06	0.10	NS
pH (field)	4.82	5.31	4.25	4.84	5.68	4.82	5.35	5.61	7.21	7.13	7.18	7.07	7.29	7.15	(6.5 - 8.5)**
temperature (°C) (field)	26.70	26.73	23.52	26.04	25.53	24.64	22.48	22.87	23.44	23.42	23.93	23.40	24.60	25.07	NS
turbidity (NTU) (field)	16.3	4.36	1.09	0.82	1.60	5.6	6.92	5.69	0.6	0.48	8.39	0.26	0.07	0.05	NS
total dissolved solids (mg/l)	98	170	240	70	200	140	210	480	230	200	300	370	190	220	500**
chloride (mg/l)	21	64	130	25	36	48	37	140	8	8.9	18	46	9.2	10	250**
ammonia nitrogen (mg/l as N)	1.2	3.1	2.3	0.92	1.5	1.6	3	1.5	0.38	0.43	0.3	1	0.23	0.15	2.8***
Metals: (mg/l)	P-18S	TH-28A	TH-30	TH-57	TH-58	TH-73	TH-74	TH-75	TH-19	TH-40	TH-42	TH-72	SUP-1	SUP-2	(MCL) STANDARD
arsenic	0.004 u	0.004 u	0.004 u	0.004 u	0.026	0.004 u	0.004 u	0.0095 i	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.004 u	0.01*
iron	2.2	3.3	0.37	0.29	3.8	3.3	20	10	0.05 u	0.05 u	0.24	0.23	0.05 u	0.05 u	0.3**
sodium	8.8	25	29	10	17	18	16	40	14	18	16	37	8.8	8.8	160*
Note: Ref. Groundwater Guidance Concentrations, FDEP 2012															
MCL=MAXIMUM CONTAMINANT LEVEL															
BDL=BELOW DETECTION LIMIT															
NTU=NEPHELOMETRIC TURBIDITY UNITS															
i = reported value between the laboratory method detection limit and the laboratory practical quantitation limit															
u = parameter was analyzed but not detected.															
*=DENOTES PRIMARY DRINKING WATER STANDARD															
**=DENOTES SECONDARY DRINKING WATER STANDARD															
***=DENOTES FLORIDA GUIDANCE CONCENTRATION															
4.82															
ug/l=MICROGRAMS PER LITER															
mg/l=MILLIGRAMS PER LITER															
NS=NO STANDARD															

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR SOUTHEAST LANDFILL

June 5, 2012

Measuring Point I.D.	T.O.C. Elevations (NGVD)	06/05/2012 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	24.15	116.63	12:16 PM
P-4S	140.95	Dry	Dry	12:16 PM
P-5D	151.94	Dry	Dry	10:33 AM
P-6D-A	148.01	29.90	118.11	10:39 AM
P-7D	138.92	19.94	118.98	11:12 AM
P-8D	138.34	20.00	118.34	11:36 AM
P-11D	138.02	19.50	118.52	11:56 AM
P-12S	134.97	16.30	118.67	11:38 AM
P-13S	140.21	20.25	119.96	11:34 AM
P-14S	138.56	19.18	119.38	11:32 AM
P-15S	139.19	20.45	118.74	11:30 AM
P-16S	143.38	16.41	126.97	10:50 AM
P-16I	144.15	26.06	118.09	10:49 AM
P-16D	143.84	25.80	118.04	10:47 AM
P-17S	137.35	19.30	118.05	10:55 AM
P-17I	137.32	19.36	117.96	10:55 AM
P-17D	137.22	19.36	117.86	10:54 AM
P-18S	129.86	19.50	110.36	9:59 AM
P-19	133.36	16.45	116.91	10:36 AM
P-20	132.38	14.86	117.52	10:43 AM
P-21	122.79	5.23	117.56	12:02 PM
P-22	128.35	10.70	117.65	12:04 PM
P-23	143.13	25.40	117.73	12:08 PM
TH-19*	130.27	119.00	11.27	10:36 AM
TH-20A	131.86	11.15	120.71	12:25 PM
TH-20B	132.57	12.19	120.38	12:26 PM
TH-22	128.82	6.31	122.51	9:13 AM
TH-22A	129.27	6.91	122.36	9:12 AM
TH-24A	128.23	6.99	121.24	9:19 AM
TH-28A	131.10	29.00	102.10	9:53 AM
TH-30	128.88	24.24	104.64	9:44 AM
TH-32	129.90	16.54	113.36	10:22 AM
TH-35	145.98	30.28	115.70	11:08 AM
TH-36A	152.70	35.70	117.00	10:45 AM
TH-38A	130.68	12.45	118.23	12:20 PM
TH-38B	131.81	12.35	119.46	12:19 PM
TH-40*	124.99	114.61	10.38	9:27 AM
TH-41*	125.00	118.00	7.00	9:28 AM
TH-42*	116.74	93.92	22.82	10:25 AM
TH-57	128.36	20.02	108.34	9:34 AM
TH-58	127.88	28.60	99.28	9:47 AM
TH-61	138.73	19.19	119.54	12:06 PM
TH-61A	139.45	20.00	119.45	12:07 PM
TH-64	139.64	19.30	120.34	12:02 PM
TH-65	135.40	16.62	118.78	12:13 PM
TH-66	130.58	11.17	119.41	12:16 PM
TH-66A	130.66	11.60	119.06	12:15 PM
TH-67	129.51	6.35	123.16	12:21 PM
TH-68	140.01	21.78	118.23	11:56 AM
TH-69A	144.97	27.10	117.87	11:46 AM
TH-70A	146.63	27.16	119.47	11:43 AM
TH-71A	146.95	28.90	118.05	11:34 AM
TH-72	130.96	120.46	10.50	9:51 AM
TH-73	131.07	32.40	98.67	9:49 AM
TH-74	109.08	10.45	98.63	9:38 AM
TH-75	106.92	8.14	98.78	9:40 AM
SW-3A	3.0'=125.53'	Dry	Dry	9:02 AM
SW-3B2B	3.0'=97.97'	Dry	Dry	10:04 AM
SW-3C2	6.0'=92.33'	1.16	87.49	10:10 AM
Mine Cut #1	4.0'=122.14'	Dry	Dry	11:25 AM
Mine Cut #2	6.0'=123.47'	0.40	117.87	11:00 AM
Mine Cut #3	4.0'=112.27'	1.40	109.67	10:20 AM
Mine Cut #4	5.0'=97.54'	1.28	93.82	10:25 AM
NGVD = National Geodetic Vertical Datum				
T.O.C. = Top of Casing				
B.T.O.C. = Below Top of Casing				
* = Floridan Well				
ND = No Data				
W.L. = Water Level				



Southeast County Landfill
Groundwater Elevation Contour Diagram — June 5, 2012

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: 660-48118-1

Client Project/Site: Southeast Landfill 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:

6/19/2012 3:18:32 PM

Nancy Robertson

Project Manager II

nancy.robertson@testamericainc.com

LINKS

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Expert**

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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.

Table of Contents

Cover Page 1

Table of Contents 2

Definitions/Glossary 3

Case Narrative 4

Detection Summary 5

Client Sample Results 9

QC Sample Results 23

QC Association Summary 29

Lab Chronicle 33

Certification Summary 37

Method Summary 38

Sample Summary 39

Chain of Custody 40

Receipt Checklists 54

Definitions/Glossary

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

TestAmerica Job ID: 660-48118-1

3

Qualifiers

Metals

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

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

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

Case Narrative

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

TestAmerica Job ID: 660-48118-1

Job ID: 660-48118-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-48118-1

Comments

No additional comments.

Receipt

The samples were received on 6/7/2012 2:30 PM and 6/8/2012 3:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 4.0° C.

Metals

Method 6010B: The matrix spike duplicate (MSD) recovery for sodium in batch 125445 were outside control limits with the parent sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

4

Detection Summary

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-48118-1

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	8.0		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.38		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	230		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA
Field Temperature	23.44				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.13				mg/L	1		Field Sampling	Total/NA
Specific Conductance	379				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.60				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-48118-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	240		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	16		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	18		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.30		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	300		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Field Temperature	23.93				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.54				mg/L	1		Field Sampling	Total/NA
Specific Conductance	476				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.39				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-48118-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3300		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	18		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	48		2.0	0.80	mg/L	4		300.0	Total/NA
Ammonia as N	1.6		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	140		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA
Field Temperature	24.64				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.87				mg/L	1		Field Sampling	Total/NA
Specific Conductance	224				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.6				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-48118-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1		6010B	Total
									Recoverable
Iron	3800		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	17		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Chloride	36		2.0	0.80	mg/L	4		300.0	Total/NA
Ammonia as N	1.5		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-58 WACS# 1571 (Continued)

Lab Sample ID: 660-48118-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.68				SU	1		Field Sampling	Total/NA
Field Temperature	25.53				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.63				mg/L	1		Field Sampling	Total/NA
Specific Conductance	379				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.60				NTU	1		Field Sampling	Total/NA

Client Sample ID: P-18S WACS# 27752

Lab Sample ID: 660-48118-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2200		200	50	ug/L	1		6010B	Total Recoverable
Sodium	8.8		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	21		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.2		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	98		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA
Field Temperature	26.70				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.64				mg/L	1		Field Sampling	Total/NA
Specific Conductance	142				umhos/cm	1		Field Sampling	Total/NA
Turbidity	16.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: DUPLICATE NOT BLANK 48118

Lab Sample ID: 660-48118-6

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		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.39		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	210		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-48118-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	18		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	8.9		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.43		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.13				SU	1		Field Sampling	Total/NA
Field Temperature	23.42				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.75				mg/L	1		Field Sampling	Total/NA
Specific Conductance	382				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.48				NTU	1		Field Sampling	Total/NA

Client Sample ID: BLANK EQUIPMENT 48118

Lab Sample ID: 660-48118-8

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

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-48118-9

Detection Summary

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-30 WACS# 1065 (Continued)

Lab Sample ID: 660-48118-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	370		200	50	ug/L	1			6010B	Total
										Recoverable
Sodium	29		0.50	0.31	mg/L	1			6010B	Total
										Recoverable
Chloride	130		2.0	0.80	mg/L	4			300.0	Total/NA
Ammonia as N	2.3		0.060	0.030	mg/L	1			350.1	Total/NA
Total Dissolved Solids	240		10	10	mg/L	1			SM 2540C	Total/NA
Field pH	4.25				SU	1			Field Sampling	Total/NA
Field Temperature	23.52				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.17				mg/L	1			Field Sampling	Total/NA
Specific Conductance	430				umhos/cm	1			Field Sampling	Total/NA
Turbidity	1.09				NTU	1			Field Sampling	Total/NA

5

Client Sample ID: TH-72

Lab Sample ID: 660-48141-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	230		200	50	ug/L	1			6010B	Total
										Recoverable
Sodium	37		0.50	0.31	mg/L	1			6010B	Total
										Recoverable
Chloride	46		2.5	1.0	mg/L	5			300.0	Total/NA
Ammonia as N	1.0		0.060	0.030	mg/L	1			350.1	Total/NA
Total Dissolved Solids	370		10	10	mg/L	1			SM 2540C	Total/NA
Field pH	7.07				SU	1			Field Sampling	Total/NA
Field Temperature	23.40				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.72				mg/L	1			Field Sampling	Total/NA
Specific Conductance	541				umhos/cm	1			Field Sampling	Total/NA
Turbidity	0.26				NTU	1			Field Sampling	Total/NA

Client Sample ID: TH-28A

Lab Sample ID: 660-48141-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	3300		200	50	ug/L	1			6010B	Total
										Recoverable
Sodium	25		0.50	0.31	mg/L	1			6010B	Total
										Recoverable
Chloride	64		2.0	0.80	mg/L	4			300.0	Total/NA
Ammonia as N	3.1		0.060	0.030	mg/L	1			350.1	Total/NA
Total Dissolved Solids	170		5.0	5.0	mg/L	1			SM 2540C	Total/NA
Field pH	5.31				SU	1			Field Sampling	Total/NA
Field Temperature	26.73				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.18				mg/L	1			Field Sampling	Total/NA
Specific Conductance	274				umhos/cm	1			Field Sampling	Total/NA
Turbidity	4.36				NTU	1			Field Sampling	Total/NA

Client Sample ID: TH-57

Lab Sample ID: 660-48141-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	290		200	50	ug/L	1			6010B	Total
										Recoverable
Sodium	10		0.50	0.31	mg/L	1			6010B	Total
										Recoverable
Chloride	25		0.50	0.20	mg/L	1			300.0	Total/NA
Ammonia as N	0.92		0.060	0.030	mg/L	1			350.1	Total/NA
Total Dissolved Solids	70		5.0	5.0	mg/L	1			SM 2540C	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-57 (Continued)

Lab Sample ID: 660-48141-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.84				SU	1		Field Sampling	Total/NA
Field Temperature	26.04				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.29				mg/L	1		Field Sampling	Total/NA
Specific Conductance	127				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.82				NTU	1		Field Sampling	Total/NA

Client Sample ID: SUP 2

Lab Sample ID: 660-48141-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.8		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	10		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.15		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	25.07				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	304				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.05				NTU	1		Field Sampling	Total/NA

Client Sample ID: SUP 1

Lab Sample ID: 660-48141-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.8		0.50	0.31	mg/L	1		6010B	Total Recoverable
Chloride	9.2		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.23		0.060	0.030	mg/L	1		350.1	Total/NA
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	24.60				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.06				mg/L	1		Field Sampling	Total/NA
Specific Conductance	292				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.07				NTU	1		Field Sampling	Total/NA

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-19 WACS# 821

Date Collected: 06/07/12 09:56

Date Received: 06/07/12 14:30

Lab Sample ID: 660-48118-1

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		06/12/12 09:22	06/13/12 10:13	1
Iron	50	U	200	50	ug/L		06/12/12 09:22	06/13/12 10:13	1
Sodium	14		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:13	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0		0.50	0.20	mg/L			06/12/12 12:48	1
Ammonia as N	0.38		0.060	0.030	mg/L			06/16/12 12:36	1
Total Dissolved Solids	230		10	10	mg/L			06/13/12 08:06	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.21				SU			06/07/12 09:56	1
Field Temperature	23.44				Degrees C			06/07/12 09:56	1
Oxygen, Dissolved	2.13				mg/L			06/07/12 09:56	1
Specific Conductance	379				umhos/cm			06/07/12 09:56	1
Turbidity	0.60				NTU			06/07/12 09:56	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-48118-2

Date Collected: 06/07/12 10:45

Matrix: Ground Water

Date Received: 06/07/12 14:30

Method: 6010B - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		06/12/12 09:22	06/13/12 10:16	1
Iron	240		200	50	ug/L		06/12/12 09:22	06/13/12 10:16	1
Sodium	16		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:16	1

6

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		0.50	0.20	mg/L			06/12/12 13:34	1
Ammonia as N	0.30		0.060	0.030	mg/L			06/16/12 12:37	1
Total Dissolved Solids	300		10	10	mg/L			06/13/12 08:06	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.18				SU			06/07/12 10:45	1
Field Temperature	23.93				Degrees C			06/07/12 10:45	1
Oxygen, Dissolved	1.54				mg/L			06/07/12 10:45	1
Specific Conductance	476				umhos/cm			06/07/12 10:45	1
Turbidity	8.39				NTU			06/07/12 10:45	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-48118-3

Date Collected: 06/07/12 12:30

Matrix: Ground Water

Date Received: 06/07/12 14:30

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		06/12/12 09:22	06/13/12 10:23	1
Iron	3300		200	50	ug/L		06/12/12 09:22	06/13/12 10:23	1
Sodium	18		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:23	1



General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48		2.0	0.80	mg/L			06/12/12 14:21	4
Ammonia as N	1.6		0.060	0.030	mg/L			06/16/12 12:39	1
Total Dissolved Solids	140		5.0	5.0	mg/L			06/13/12 08:07	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			06/07/12 12:30	1
Field Temperature	24.64				Degrees C			06/07/12 12:30	1
Oxygen, Dissolved	0.87				mg/L			06/07/12 12:30	1
Specific Conductance	224				umhos/cm			06/07/12 12:30	1
Turbidity	5.6				NTU			06/07/12 12:30	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-58 WACS# 1571

Date Collected: 06/07/12 12:07

Date Received: 06/07/12 14:30

Lab Sample ID: 660-48118-4

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		06/12/12 09:22	06/13/12 10:26	1
Iron	3800		200	50	ug/L		06/12/12 09:22	06/13/12 10:26	1
Sodium	17		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:26	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36		2.0	0.80	mg/L			06/12/12 14:36	4
Ammonia as N	1.5		0.060	0.030	mg/L			06/16/12 12:42	1
Total Dissolved Solids	200		10	10	mg/L			06/13/12 10:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.68				SU			06/07/12 12:07	1
Field Temperature	25.63				Degrees C			06/07/12 12:07	1
Oxygen, Dissolved	0.63				mg/L			06/07/12 12:07	1
Specific Conductance	379				umhos/cm			06/07/12 12:07	1
Turbidity	1.60				NTU			06/07/12 12:07	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: P-18S WACS# 27752

Lab Sample ID: 660-48118-5

Date Collected: 06/07/12 11:18

Matrix: Ground Water

Date Received: 06/07/12 14:30

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		06/12/12 09:22	06/13/12 10:30	1
Iron	2200		200	50	ug/L		06/12/12 09:22	06/13/12 10:30	1
Sodium	8.8		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:30	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21		0.50	0.20	mg/L			06/12/12 14:51	1
Ammonia as N	1.2		0.060	0.030	mg/L			06/16/12 12:51	1
Total Dissolved Solids	98		5.0	5.0	mg/L			06/13/12 10:55	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			06/07/12 11:18	1
Field Temperature	26.70				Degrees C			06/07/12 11:18	1
Oxygen, Dissolved	0.64				mg/L			06/07/12 11:18	1
Specific Conductance	142				umhos/cm			06/07/12 11:18	1
Turbidity	16.3				NTU			06/07/12 11:18	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: DUPLICATE NOT BLANK 48118

Date Collected: 06/07/12 00:00

Date Received: 06/07/12 14:30

Lab Sample ID: 660-48118-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit
Arsenic	4.0	U	10	4.0	ug/L
Iron	50	U	200	50	ug/L
Sodium	14		0.50	0.31	mg/L

D	Prepared	Analyzed	Dil Fac
	06/12/12 09:22	06/13/12 10:33	1
	06/12/12 09:22	06/13/12 10:33	1
	06/12/12 09:22	06/13/12 10:33	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit
Chloride	7.9		0.50	0.20	mg/L
Ammonia as N	0.39		0.060	0.030	mg/L
Total Dissolved Solids	210		10	10	mg/L

D	Prepared	Analyzed	Dil Fac
		06/12/12 15:07	1
		06/16/12 12:52	1
		06/13/12 10:56	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-48118-7

Date Collected: 06/07/12 09:22

Matrix: Ground Water

Date Received: 06/07/12 14:30

Method: 6010B - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		06/12/12 09:22	06/13/12 10:43	1
Iron	50	U	200	50	ug/L		06/12/12 09:22	06/13/12 10:43	1
Sodium	18		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:43	1

6

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.9		0.50	0.20	mg/L			06/12/12 15:22	1
Ammonia as N	0.43		0.060	0.030	mg/L			06/16/12 12:53	1
Total Dissolved Solids	200		10	10	mg/L			06/13/12 10:58	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.13				SU			06/07/12 09:22	1
Field Temperature	23.42				Degrees C			06/07/12 09:22	1
Oxygen, Dissolved	0.75				mg/L			06/07/12 09:22	1
Specific Conductance	382				umhos/cm			06/07/12 09:22	1
Turbidity	0.48				NTU			06/07/12 09:22	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: BLANK EQUIPMENT 48118

Date Collected: 06/07/12 09:00

Date Received: 06/07/12 14:30

Lab Sample ID: 660-48118-8

Matrix: Other Aqueous Sample

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		06/12/12 09:22	06/13/12 10:46	1
Iron	50	U	200	50	ug/L		06/12/12 09:22	06/13/12 10:46	1
Sodium	1.4		0.50	0.31	mg/L		06/12/12 09:22	06/13/12 10:46	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			06/12/12 15:38	1
Ammonia as N	0.030	U	0.060	0.030	mg/L			06/16/12 12:55	1
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			06/13/12 10:59	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-30 WACS# 1065

Date Collected: 06/07/12 11:47

Date Received: 06/07/12 14:30

Lab Sample ID: 660-48118-9

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		06/12/12 09:25	06/13/12 10:50	1
Iron	370		200	50	ug/L		06/12/12 09:25	06/13/12 10:50	1
Sodium	29		0.50	0.31	mg/L		06/12/12 09:25	06/13/12 10:50	1

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		2.0	0.80	mg/L			06/12/12 15:53	4
Ammonia as N	2.3		0.060	0.030	mg/L			06/16/12 12:56	1
Total Dissolved Solids	240		10	10	mg/L			06/13/12 10:59	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.25				SU			06/07/12 11:47	1
Field Temperature	23.52				Degrees C			06/07/12 11:47	1
Oxygen, Dissolved	0.17				mg/L			06/07/12 11:47	1
Specific Conductance	430				umhos/cm			06/07/12 11:47	1
Turbidity	1.09				NTU			06/07/12 11:47	1

6

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-72

Lab Sample ID: 660-48141-1

Date Collected: 06/08/12 10:56

Matrix: Ground Water

Date Received: 06/08/12 15:05

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		06/13/12 09:04	06/13/12 15:40	1
Iron	230		200	50	ug/L		06/13/12 09:04	06/13/12 15:40	1
Sodium	37		0.50	0.31	mg/L		06/13/12 09:04	06/13/12 15:40	1

General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		2.5	1.0	mg/L			06/13/12 16:06	5
Ammonia as N	1.0		0.060	0.030	mg/L			06/16/12 12:25	1
Total Dissolved Solids	370		10	10	mg/L			06/14/12 12:29	1

Method: Field Sampling - Field Sampling									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.07				SU			06/08/12 10:56	1
Field Temperature	23.40				Degrees C			06/08/12 10:56	1
Oxygen, Dissolved	0.72				mg/L			06/08/12 10:56	1
Specific Conductance	541				umhos/cm			06/08/12 10:56	1
Turbidity	0.26				NTU			06/08/12 10:56	1

6

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-28A

Lab Sample ID: 660-48141-2

Date Collected: 06/08/12 11:16

Matrix: Ground Water

Date Received: 06/08/12 15:05

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		06/13/12 09:04	06/13/12 15:43	1
Iron	3300		200	50	ug/L		06/13/12 09:04	06/13/12 15:43	1
Sodium	25		0.50	0.31	mg/L		06/13/12 09:04	06/13/12 15:43	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		2.0	0.80	mg/L			06/13/12 16:21	4
Ammonia as N	3.1		0.060	0.030	mg/L			06/16/12 12:29	1
Total Dissolved Solids	170		5.0	5.0	mg/L			06/14/12 12:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.31				SU			06/08/12 11:16	1
Field Temperature	26.73				Degrees C			06/08/12 11:16	1
Oxygen, Dissolved	1.18				mg/L			06/08/12 11:16	1
Specific Conductance	274				umhos/cm			06/08/12 11:16	1
Turbidity	4.36				NTU			06/08/12 11:16	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-57

Lab Sample ID: 660-48141-3

Date Collected: 06/08/12 11:38

Matrix: Ground Water

Date Received: 06/08/12 15:05

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		06/13/12 09:04	06/13/12 15:46	1
Iron	290		200	50	ug/L		06/13/12 09:04	06/13/12 15:46	1
Sodium	10		0.50	0.31	mg/L		06/13/12 09:04	06/13/12 15:46	1



General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		0.50	0.20	mg/L			06/13/12 16:37	1
Ammonia as N	0.92		0.060	0.030	mg/L			06/16/12 12:30	1
Total Dissolved Solids	70		5.0	5.0	mg/L			06/14/12 12:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.84				SU			06/08/12 11:38	1
Field Temperature	26.04				Degrees C			06/08/12 11:38	1
Oxygen, Dissolved	0.29				mg/L			06/08/12 11:38	1
Specific Conductance	127				umhos/cm			06/08/12 11:38	1
Turbidity	0.82				NTU			06/08/12 11:38	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: SUP 2

Lab Sample ID: 660-48141-4

Date Collected: 06/08/12 12:14

Matrix: Ground Water

Date Received: 06/08/12 15:05

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		06/13/12 09:04	06/13/12 15:50	1
Iron	50	U	200	50	ug/L		06/13/12 09:04	06/13/12 15:50	1
Sodium	8.8		0.50	0.31	mg/L		06/13/12 09:04	06/13/12 15:50	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		0.50	0.20	mg/L			06/13/12 17:23	1
Ammonia as N	0.15		0.060	0.030	mg/L			06/16/12 12:31	1
Total Dissolved Solids	220		10	10	mg/L			06/14/12 12:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.16				SU			06/08/12 12:14	1
Field Temperature	25.07				Degrees C			06/08/12 12:14	1
Oxygen, Dissolved	0.10				mg/L			06/08/12 12:14	1
Specific Conductance	304				umhos/cm			06/08/12 12:14	1
Turbidity	0.05				NTU			06/08/12 12:14	1

Client Sample Results

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: SUP 1

Lab Sample ID: 660-48141-5

Date Collected: 06/08/12 12:40

Matrix: Ground Water

Date Received: 06/08/12 15:05

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		06/13/12 09:04	06/13/12 15:53	1
Iron	50	U	200	50	ug/L		06/13/12 09:04	06/13/12 15:53	1
Sodium	8.8		0.50	0.31	mg/L		06/13/12 09:04	06/13/12 15:53	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		0.50	0.20	mg/L			06/15/12 13:37	1
Ammonia as N	0.23		0.060	0.030	mg/L			06/16/12 12:32	1
Total Dissolved Solids	190		10	10	mg/L			06/14/12 12:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.29				SU			06/08/12 12:40	1
Field Temperature	24.60				Degrees C			06/08/12 12:40	1
Oxygen, Dissolved	0.06				mg/L			06/08/12 12:40	1
Specific Conductance	292				umhos/cm			06/08/12 12:40	1
Turbidity	0.07				NTU			06/08/12 12:40	1

QC Sample Results

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

TestAmerica Job ID: 660-48118-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-125405/1-A
Matrix: Water
Analysis Batch: 125463

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 125405

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		06/12/12 09:22	06/13/12 09:23	1
Iron	50	U	200	50	ug/L		06/12/12 09:22	06/13/12 09:23	1
Sodium	0.31	U	0.50	0.31	mg/L		06/12/12 09:22	06/13/12 09:23	1

7

Lab Sample ID: LCS 660-125405/2-A
Matrix: Water
Analysis Batch: 125463

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 125405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1010		ug/L		101	75 - 125
Iron	1000	1020		ug/L		102	75 - 125
Sodium	10.0	10.1		mg/L		101	75 - 125

Lab Sample ID: 660-48117-B-1-B MS
Matrix: Water
Analysis Batch: 125463

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 125405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.0	U	1000	1020		ug/L		102	75 - 125
Iron	50	U	1000	988		ug/L		99	75 - 125
Sodium	17		10.0	26.6		mg/L		99	75 - 125

Lab Sample ID: 660-48117-B-1-C MSD
Matrix: Water
Analysis Batch: 125463

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 125405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.0	U	1000	1030		ug/L		103	75 - 125	1	20
Iron	50	U	1000	1000		ug/L		100	75 - 125	1	20
Sodium	17		10.0	26.5		mg/L		98	75 - 125	0	20

Lab Sample ID: MB 660-125445/1-A
Matrix: Water
Analysis Batch: 125463

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 125445

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		06/13/12 09:04	06/13/12 14:23	1
Iron	50	U	200	50	ug/L		06/13/12 09:04	06/13/12 14:23	1
Sodium	0.31	U	0.50	0.31	mg/L		06/13/12 09:04	06/13/12 14:23	1

Lab Sample ID: LCS 660-125445/2-A
Matrix: Water
Analysis Batch: 125463

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 125445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1000	1060		ug/L		106	75 - 125
Iron	1000	1030		ug/L		103	75 - 125
Sodium	10.0	10.6		mg/L		106	75 - 125

QC Sample Results

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

TestAmerica Job ID: 660-48118-1

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

Lab Sample ID: 660-48192-E-1-B MS

Matrix: Water

Analysis Batch: 125463

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 125445

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Arsenic	4.0	U	1000	1110		ug/L		111	75 - 125	
Iron	2700		1000	3710		ug/L		102	75 - 125	
Sodium	180	J3	10.0	185		mg/L		78	75 - 125	



Lab Sample ID: 660-48192-E-1-C MSD

Matrix: Water

Analysis Batch: 125463

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 125445

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Arsenic	4.0	U	1000	1090		ug/L		109	75 - 125		1	20
Iron	2700		1000	3670		ug/L		98	75 - 125		1	20
Sodium	180	J3	10.0	181	J3	mg/L		37	75 - 125		2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-125449/4

Matrix: Water

Analysis Batch: 125449

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			06/12/12 09:26	1

Lab Sample ID: LCS 660-125449/5

Matrix: Water

Analysis Batch: 125449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
	Added	Result	Qualifier				Limits	
Chloride	10.0	9.86		mg/L		99	90 - 110	

Lab Sample ID: 660-48118-1 MS

Matrix: Ground Water

Analysis Batch: 125449

Client Sample ID: TH-19 WACS# 821

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Chloride	8.0		10.0	18.4		mg/L		104	90 - 110	

Lab Sample ID: 660-48118-1 MSD

Matrix: Ground Water

Analysis Batch: 125449

Client Sample ID: TH-19 WACS# 821

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Chloride	8.0		10.0	18.4		mg/L		104	90 - 110		0	30

Lab Sample ID: 660-48118-2 MS

Matrix: Ground Water

Analysis Batch: 125449

Client Sample ID: TH-42 WACS# 823

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Chloride	18		10.0	27.7		mg/L		100	90 - 110	

QC Sample Results

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

TestAmerica Job ID: 660-48118-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-48118-2 MSD
Matrix: Ground Water
Analysis Batch: 125449

Client Sample ID: TH-42 WACS# 823
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	18		10.0	27.9		mg/L		102	90 - 110	1	30

Lab Sample ID: MB 660-125561/4
Matrix: Water
Analysis Batch: 125561

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			06/13/12 09:40	1

Lab Sample ID: LCS 660-125561/5
Matrix: Water
Analysis Batch: 125561

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.87		mg/L		99	90 - 110

Lab Sample ID: 660-48126-C-1 MS
Matrix: Water
Analysis Batch: 125561

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	12		10.0	21.6		mg/L		100	90 - 110

Lab Sample ID: 660-48126-C-1 MSD
Matrix: Water
Analysis Batch: 125561

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	12		10.0	21.7		mg/L		101	90 - 110	0	30

Lab Sample ID: MB 660-125600/4
Matrix: Water
Analysis Batch: 125600

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			06/15/12 09:36	1

Lab Sample ID: LCS 660-125600/5
Matrix: Water
Analysis Batch: 125600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.79		mg/L		98	90 - 110

Lab Sample ID: 660-48141-5 MS
Matrix: Ground Water
Analysis Batch: 125600

Client Sample ID: SUP 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.2		10.0	19.9		mg/L		107	90 - 110

QC Sample Results

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

TestAmerica Job ID: 660-48118-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-48141-5 MSD							Client Sample ID: SUP 1				
Matrix: Ground Water							Prep Type: Total/NA				
Analysis Batch: 125600											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.2		10.0	19.9		mg/L		107	90 - 110	0	30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-125593/11							Client Sample ID: Method Blank				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 125593											
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Ammonia as N	0.030	U	0.060	0.030	mg/L			06/16/12 12:23	1		

Lab Sample ID: LCS 660-125593/12							Client Sample ID: Lab Control Sample				
Matrix: Water							Prep Type: Total/NA				
Analysis Batch: 125593											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N			0.500	0.504		mg/L		101	90 - 110		

Lab Sample ID: 660-48118-4 MS							Client Sample ID: TH-58 WACS# 1571				
Matrix: Ground Water							Prep Type: Total/NA				
Analysis Batch: 125593											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	1.5		1.00	2.50		mg/L		104	90 - 110		

Lab Sample ID: 660-48118-4 MSD							Client Sample ID: TH-58 WACS# 1571				
Matrix: Ground Water							Prep Type: Total/NA				
Analysis Batch: 125593											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	1.5		1.00	2.52		mg/L		106	90 - 110	1	30

Lab Sample ID: 660-48141-1 MS							Client Sample ID: TH-72				
Matrix: Ground Water							Prep Type: Total/NA				
Analysis Batch: 125593											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia as N	1.0		1.00	2.09		mg/L		107	90 - 110		

Lab Sample ID: 660-48141-1 MSD							Client Sample ID: TH-72				
Matrix: Ground Water							Prep Type: Total/NA				
Analysis Batch: 125593											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	1.0		1.00	2.08		mg/L		106	90 - 110	0	30

QC Sample Results

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

TestAmerica Job ID: 660-48118-1

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

Lab Sample ID: MB 660-125439/1
Matrix: Water
Analysis Batch: 125439

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			06/13/12 07:58	1

Lab Sample ID: LCS 660-125439/2
Matrix: Water
Analysis Batch: 125439

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	9860		mg/L		99	80 - 120

Lab Sample ID: 640-38976-E-1 DU
Matrix: Water
Analysis Batch: 125439

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	530		520		mg/L		2	20

Lab Sample ID: MB 660-125460/1
Matrix: Water
Analysis Batch: 125460

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			06/13/12 10:53	1

Lab Sample ID: LCS 660-125460/2
Matrix: Water
Analysis Batch: 125460

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	9890		mg/L		99	80 - 120

Lab Sample ID: 660-48118-4 DU
Matrix: Ground Water
Analysis Batch: 125460

Client Sample ID: TH-58 WACS# 1571
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		188		mg/L		4	20

Lab Sample ID: MB 660-125512/1
Matrix: Water
Analysis Batch: 125512

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			06/14/12 12:23	1

Lab Sample ID: LCS 660-125512/2
Matrix: Water
Analysis Batch: 125512

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	9960		mg/L		100	80 - 120

QC Sample Results

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

TestAmerica Job ID: 660-48118-1

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

Lab Sample ID: 640-38986-A-1 DU

Matrix: Water

Analysis Batch: 125512

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
Total Dissolved Solids	320		328		mg/L		4		20

7

QC Association Summary

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

TestAmerica Job ID: 660-48118-1

Metals

Prep Batch: 125405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48117-B-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-48117-B-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-48118-1	TH-19 WACS# 821	Total Recoverable	Ground Water	3005A	
660-48118-2	TH-42 WACS# 823	Total Recoverable	Ground Water	3005A	
660-48118-3	TH-73 WACS# 27754	Total Recoverable	Ground Water	3005A	
660-48118-4	TH-58 WACS# 1571	Total Recoverable	Ground Water	3005A	
660-48118-5	P-18S WACS# 27752	Total Recoverable	Ground Water	3005A	
660-48118-6	DUPLICATE NOT BLANK 48118	Total Recoverable	Ground Water	3005A	
660-48118-7	TH-40 WACS# 822	Total Recoverable	Ground Water	3005A	
660-48118-8	BLANK EQUIPMENT 48118	Total Recoverable	Other Aqueous Sample	3005A	
660-48118-9	TH-30 WACS# 1065	Total Recoverable	Ground Water	3005A	
LCS 660-125405/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-125405/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 125445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48141-1	TH-72	Total Recoverable	Ground Water	3005A	
660-48141-2	TH-28A	Total Recoverable	Ground Water	3005A	
660-48141-3	TH-57	Total Recoverable	Ground Water	3005A	
660-48141-4	SUP 2	Total Recoverable	Ground Water	3005A	
660-48141-5	SUP 1	Total Recoverable	Ground Water	3005A	
660-48192-E-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-48192-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 660-125445/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-125445/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 125463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48117-B-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	125405
660-48117-B-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	125405
660-48118-1	TH-19 WACS# 821	Total Recoverable	Ground Water	6010B	125405
660-48118-2	TH-42 WACS# 823	Total Recoverable	Ground Water	6010B	125405
660-48118-3	TH-73 WACS# 27754	Total Recoverable	Ground Water	6010B	125405
660-48118-4	TH-58 WACS# 1571	Total Recoverable	Ground Water	6010B	125405
660-48118-5	P-18S WACS# 27752	Total Recoverable	Ground Water	6010B	125405
660-48118-6	DUPLICATE NOT BLANK 48118	Total Recoverable	Ground Water	6010B	125405
660-48118-7	TH-40 WACS# 822	Total Recoverable	Ground Water	6010B	125405
660-48118-8	BLANK EQUIPMENT 48118	Total Recoverable	Other Aqueous Sample	6010B	125405
660-48118-9	TH-30 WACS# 1065	Total Recoverable	Ground Water	6010B	125405
660-48141-1	TH-72	Total Recoverable	Ground Water	6010B	125445
660-48141-2	TH-28A	Total Recoverable	Ground Water	6010B	125445
660-48141-3	TH-57	Total Recoverable	Ground Water	6010B	125445
660-48141-4	SUP 2	Total Recoverable	Ground Water	6010B	125445
660-48141-5	SUP 1	Total Recoverable	Ground Water	6010B	125445
660-48192-E-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	125445
660-48192-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	125445
LCS 660-125405/2-A	Lab Control Sample	Total Recoverable	Water	6010B	125405
LCS 660-125445/2-A	Lab Control Sample	Total Recoverable	Water	6010B	125445
MB 660-125405/1-A	Method Blank	Total Recoverable	Water	6010B	125405
MB 660-125445/1-A	Method Blank	Total Recoverable	Water	6010B	125445

QC Association Summary

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

TestAmerica Job ID: 660-48118-1

General Chemistry

Analysis Batch: 125439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38976-E-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-48118-1	TH-19 WACS# 821	Total/NA	Ground Water	SM 2540C	
660-48118-2	TH-42 WACS# 823	Total/NA	Ground Water	SM 2540C	
660-48118-3	TH-73 WACS# 27754	Total/NA	Ground Water	SM 2540C	
LCS 660-125439/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-125439/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 125449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48118-1	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48118-1 MS	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48118-1 MSD	TH-19 WACS# 821	Total/NA	Ground Water	300.0	
660-48118-2	TH-42 WACS# 823	Total/NA	Ground Water	300.0	
660-48118-2 MS	TH-42 WACS# 823	Total/NA	Ground Water	300.0	
660-48118-2 MSD	TH-42 WACS# 823	Total/NA	Ground Water	300.0	
660-48118-3	TH-73 WACS# 27754	Total/NA	Ground Water	300.0	
660-48118-4	TH-58 WACS# 1571	Total/NA	Ground Water	300.0	
660-48118-5	P-18S WACS# 27752	Total/NA	Ground Water	300.0	
660-48118-6	DUPLICATE NOT BLANK 48118	Total/NA	Ground Water	300.0	
660-48118-7	TH-40 WACS# 822	Total/NA	Ground Water	300.0	
660-48118-8	BLANK EQUIPMENT 48118	Total/NA	Other Aqueous Sample	300.0	
660-48118-9	TH-30 WACS# 1065	Total/NA	Ground Water	300.0	
LCS 660-125449/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-125449/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 125460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48118-4	TH-58 WACS# 1571	Total/NA	Ground Water	SM 2540C	
660-48118-4 DU	TH-58 WACS# 1571	Total/NA	Ground Water	SM 2540C	
660-48118-5	P-18S WACS# 27752	Total/NA	Ground Water	SM 2540C	
660-48118-6	DUPLICATE NOT BLANK 48118	Total/NA	Ground Water	SM 2540C	
660-48118-7	TH-40 WACS# 822	Total/NA	Ground Water	SM 2540C	
660-48118-8	BLANK EQUIPMENT 48118	Total/NA	Other Aqueous Sample	SM 2540C	
660-48118-9	TH-30 WACS# 1065	Total/NA	Ground Water	SM 2540C	
LCS 660-125460/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-125460/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 125512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38986-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-48141-1	TH-72	Total/NA	Ground Water	SM 2540C	
660-48141-2	TH-28A	Total/NA	Ground Water	SM 2540C	
660-48141-3	TH-57	Total/NA	Ground Water	SM 2540C	
660-48141-4	SUP 2	Total/NA	Ground Water	SM 2540C	
660-48141-5	SUP 1	Total/NA	Ground Water	SM 2540C	
LCS 660-125512/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-125512/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 125561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48126-C-1 MS	Matrix Spike	Total/NA	Water	300.0	

8

QC Association Summary

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

TestAmerica Job ID: 660-48118-1

General Chemistry (Continued)

Analysis Batch: 125561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48126-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-48141-1	TH-72	Total/NA	Ground Water	300.0	
660-48141-2	TH-28A	Total/NA	Ground Water	300.0	
660-48141-3	TH-57	Total/NA	Ground Water	300.0	
660-48141-4	SUP 2	Total/NA	Ground Water	300.0	
LCS 660-125561/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-125561/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 125593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48118-1	TH-19 WACS# 821	Total/NA	Ground Water	350.1	
660-48118-2	TH-42 WACS# 823	Total/NA	Ground Water	350.1	
660-48118-3	TH-73 WACS# 27754	Total/NA	Ground Water	350.1	
660-48118-4	TH-58 WACS# 1571	Total/NA	Ground Water	350.1	
660-48118-4 MS	TH-58 WACS# 1571	Total/NA	Ground Water	350.1	
660-48118-4 MSD	TH-58 WACS# 1571	Total/NA	Ground Water	350.1	
660-48118-5	P-18S WACS# 27752	Total/NA	Ground Water	350.1	
660-48118-6	DUPLICATE NOT BLANK 48118	Total/NA	Ground Water	350.1	
660-48118-7	TH-40 WACS# 822	Total/NA	Ground Water	350.1	
660-48118-8	BLANK EQUIPMENT 48118	Total/NA	Other Aqueous Sample	350.1	
660-48118-9	TH-30 WACS# 1065	Total/NA	Ground Water	350.1	
660-48141-1	TH-72	Total/NA	Ground Water	350.1	
660-48141-1 MS	TH-72	Total/NA	Ground Water	350.1	
660-48141-1 MSD	TH-72	Total/NA	Ground Water	350.1	
660-48141-2	TH-28A	Total/NA	Ground Water	350.1	
660-48141-3	TH-57	Total/NA	Ground Water	350.1	
660-48141-4	SUP 2	Total/NA	Ground Water	350.1	
660-48141-5	SUP 1	Total/NA	Ground Water	350.1	
LCS 660-125593/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-125593/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 125600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48141-5	SUP 1	Total/NA	Ground Water	300.0	
660-48141-5 MS	SUP 1	Total/NA	Ground Water	300.0	
660-48141-5 MSD	SUP 1	Total/NA	Ground Water	300.0	
LCS 660-125600/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-125600/4	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 125353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48118-1	TH-19 WACS# 821	Total/NA	Ground Water	Field Sampling	
660-48118-2	TH-42 WACS# 823	Total/NA	Ground Water	Field Sampling	
660-48118-3	TH-73 WACS# 27754	Total/NA	Ground Water	Field Sampling	
660-48118-4	TH-58 WACS# 1571	Total/NA	Ground Water	Field Sampling	
660-48118-5	P-18S WACS# 27752	Total/NA	Ground Water	Field Sampling	
660-48118-7	TH-40 WACS# 822	Total/NA	Ground Water	Field Sampling	
660-48118-9	TH-30 WACS# 1065	Total/NA	Ground Water	Field Sampling	

QC Association Summary

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

TestAmerica Job ID: 660-48118-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 125407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48141-1	TH-72	Total/NA	Ground Water	Field Sampling	
660-48141-2	TH-28A	Total/NA	Ground Water	Field Sampling	
660-48141-3	TH-57	Total/NA	Ground Water	Field Sampling	
660-48141-4	SUP 2	Total/NA	Ground Water	Field Sampling	
660-48141-5	SUP 1	Total/NA	Ground Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-48118-1

Date Collected: 06/07/12 09:56

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:13	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125439	06/13/12 08:06	TO	TAL TAM
Total/NA	Analysis	300.0		1	125449	06/12/12 12:48	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:36	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 09:56		TAL TAM

9

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-48118-2

Date Collected: 06/07/12 10:45

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:16	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125439	06/13/12 08:06	TO	TAL TAM
Total/NA	Analysis	300.0		1	125449	06/12/12 13:34	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:37	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 10:45		TAL TAM

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-48118-3

Date Collected: 06/07/12 12:30

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:23	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125439	06/13/12 08:07	TO	TAL TAM
Total/NA	Analysis	300.0		4	125449	06/12/12 14:21	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:39	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 12:30		TAL TAM

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-48118-4

Date Collected: 06/07/12 12:07

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:26	GF	TAL TAM
Total/NA	Analysis	300.0		4	125449	06/12/12 14:36	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	125460	06/13/12 10:54	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:42	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 12:07		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: P-18S WACS# 27752

Lab Sample ID: 660-48118-5

Date Collected: 06/07/12 11:18

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:30	GF	TAL TAM
Total/NA	Analysis	300.0		1	125449	06/12/12 14:51	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	125460	06/13/12 10:55	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:51	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 11:18		TAL TAM

9

Client Sample ID: DUPLICATE NOT BLANK 48118

Lab Sample ID: 660-48118-6

Date Collected: 06/07/12 00:00

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:33	GF	TAL TAM
Total/NA	Analysis	300.0		1	125449	06/12/12 15:07	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	125460	06/13/12 10:56	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:52	TO	TAL TAM

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-48118-7

Date Collected: 06/07/12 09:22

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:43	GF	TAL TAM
Total/NA	Analysis	300.0		1	125449	06/12/12 15:22	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	125460	06/13/12 10:58	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:53	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 09:22		TAL TAM

Client Sample ID: BLANK EQUIPMENT 48118

Lab Sample ID: 660-48118-8

Date Collected: 06/07/12 09:00

Matrix: Other Aqueous Sample

Date Received: 06/07/12 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:22	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:46	GF	TAL TAM
Total/NA	Analysis	300.0		1	125449	06/12/12 15:38	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	125460	06/13/12 10:59	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:55	TO	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-48118-9

Date Collected: 06/07/12 11:47

Matrix: Ground Water

Date Received: 06/07/12 14:30

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125405	06/12/12 09:25	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 10:50	GF	TAL TAM
Total/NA	Analysis	300.0		4	125449	06/12/12 15:53	KW	TAL TAM
Total/NA	Analysis	SM 2540C		1	125460	06/13/12 10:59	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:56	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125353	06/07/12 11:47		TAL TAM

9

Client Sample ID: TH-72

Lab Sample ID: 660-48141-1

Date Collected: 06/08/12 10:56

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125445	06/13/12 09:04	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 15:40	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:29	TO	TAL TAM
Total/NA	Analysis	300.0		5	125561	06/13/12 16:06	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:25	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 10:56		TAL TAM

Client Sample ID: TH-28A

Lab Sample ID: 660-48141-2

Date Collected: 06/08/12 11:16

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125445	06/13/12 09:04	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 15:43	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:30	TO	TAL TAM
Total/NA	Analysis	300.0		4	125561	06/13/12 16:21	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:29	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 11:16		TAL TAM

Client Sample ID: TH-57

Lab Sample ID: 660-48141-3

Date Collected: 06/08/12 11:38

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prop Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125445	06/13/12 09:04	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 15:46	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:30	TO	TAL TAM
Total/NA	Analysis	300.0		1	125561	06/13/12 16:37	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:30	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 11:38		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-48118-1

Client Sample ID: SUP 2

Lab Sample ID: 660-48141-4

Date Collected: 06/08/12 12:14

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125445	06/13/12 09:04	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 15:50	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:31	TO	TAL TAM
Total/NA	Analysis	300.0		1	125561	06/13/12 17:23	KW	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:31	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 12:14		TAL TAM

9

Client Sample ID: SUP 1

Lab Sample ID: 660-48141-5

Date Collected: 06/08/12 12:40

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125445	06/13/12 09:04	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125463	06/13/12 15:53	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:31	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:32	TO	TAL TAM
Total/NA	Analysis	300.0		1	125600	06/15/12 13:37	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 12:40		TAL TAM

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 660-48118-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

10

Method Summary

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

TestAmerica Job ID: 660-48118-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 660-48118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-48118-1	TH-19 WACS# 821	Ground Water	06/07/12 09:56	06/07/12 14:30
660-48118-2	TH-42 WACS# 823	Ground Water	06/07/12 10:45	06/07/12 14:30
660-48118-3	TH-73 WACS# 27754	Ground Water	06/07/12 12:30	06/07/12 14:30
660-48118-4	TH-58 WACS# 1571	Ground Water	06/07/12 12:07	06/07/12 14:30
660-48118-5	P-18S WACS# 27752	Ground Water	06/07/12 11:18	06/07/12 14:30
660-48118-6	DUPLICATE NOT BLANK 48118	Ground Water	06/07/12 00:00	06/07/12 14:30
660-48118-7	TH-40 WACS# 822	Ground Water	06/07/12 09:22	06/07/12 14:30
660-48118-8	BLANK EQUIPMENT 48118	Other Aqueous Sample	06/07/12 09:00	06/07/12 14:30
660-48118-9	TH-30 WACS# 1065	Ground Water	06/07/12 11:47	06/07/12 14:30
660-48141-1	TH-72	Ground Water	06/08/12 10:56	06/08/12 15:05
660-48141-2	TH-28A	Ground Water	06/08/12 11:16	06/08/12 15:05
660-48141-3	TH-57	Ground Water	06/08/12 11:38	06/08/12 15:05
660-48141-4	SUP 2	Ground Water	06/08/12 12:14	06/08/12 15:05
660-48141-5	SUP 1	Ground Water	06/08/12 12:40	06/08/12 15:05

12

660-48118

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 6-3-12 3:00LOCATION: TH-19 WACS# 821 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION BA.Balloon JC ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 153.60 Ft.DEPTH TO WATER: 117.87 Ft.LENGTH OF WATER COL: 35.73 Ft.VOLUME TO PURGE: 5.72 Gal.PURGE STARTED: 6.7.12 19:47PURGE RATE: 1.00 GPM.

DATE | TIME

PURGE ENDED: 6.7.12 19:56ACT. VOL. PURGED: 9.00 5.00 GAL.Draw Down: 117.95

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:52	23.41	378	7.19	2.51	.87 =
AB JC	9:54	23.44	379	7.21	2.17	.84
AB JC	9:56	23.44	379	7.21	2.13	.40

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6.7.12 19:54

ANALYSIS REQUESTED:

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 6-7-12 2:30ACCEPTED BY: Carol McHugh REP. OF CONTRACT LAB. 6-7-12 2:30COMMENT'S: W0#0062HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AW REP. OF SOLID WASTE DEPT. 6-7-12 3:00

LOCATION: TH-42 WACS# 823

SAMPLE MATRIX: WATER OTHER MATRIX: _____

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

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 164.00 Ft.

DEPTH TO WATER: 93.01 Ft.

LENGTH OF WATER COL: 70.99 Ft.

VOLUME TO PURGE: 11.84 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

6.7.12 | 10:19

0.50 GPM.

DATE | TIME

6.7.12 | 10:45

13.00 GAL.

105.75

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:41	23.90	474	7.19	1.69	8.24 =
AB JC	10:43	23.93	474	7.18	1.49	8.33
AB JC	10:45	23.93	474	7.18	1.54	8.39

SAMPLE CONTAINERS

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

41 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6.7.12 | 10:45

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic Dissolved Sodium

Dissolved Iron Dissolved Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AW REP. OF SOLID WASTE DEPT. 6-7-12 2:30

ACCEPTED BY: Carol McHugh REP. OF CONTRACT LAB. 6-7-12 2:30

COMMENT'S: WOT# 0062

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

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB

REP. OF SOLID WASTE DEPT. 6-7-12 3:00

LOCATION: TH-73 WACS#27754

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☐ A.Balloon ☒ FL ☐

WELL DIAMETER: 2 INCH:

TOTAL DEPTH OF WELL: 43.40 Ft.

DEPTH TO WATER: 32.22 Ft.

LENGTH OF WATER COL: 11.18 Ft.

VOLUME TO PURGE: 1.79 Gal.

PURGE STARTED:

DATE | TIME

6-7-12 12:20

PURGE RATE:

0.30 GPM.

DATE | TIME

PURGE ENDED:

6-7-12 12:30

ACT. VOL. PURGED:

GAL.

Draw Down:

37.22

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:26	24.45	237	4.89	0.76	27.9 =
AB JC	12:28	24.65	229	4.81	0.90	10.4
AB JC	12:30	24.64	224	4.82	0.87	5.4

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

6-7-12 12:30

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB

REP. OF SOLID WASTE DEPT.

DATE | TIME

6-7-12 2:30

ACCEPTED BY: Carol M. [Signature]

REP. OF CONTRACT LAB.

6-7-12 2:30

COMMENT'S: WD#0062

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____

REP. OF CONTRACT LAB. _____

ACCEPTED BY: AS

REP. OF SOLID WASTE DEPT. 6-3-12 7:00

LOCATION: TH-58 WACS# 1571

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A.Balloon ☒ JC ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 32.92 Ft.

DEPTH TO WATER: 28.34 Ft.

LENGTH OF WATER COL: 4.56 Ft.

VOLUME TO PURGE: 0.73 Gal.

PURGE STARTED:

DATE | TIME

6.7.12 12:00

PURGE RATE:

0.20 GPM.

DATE | TIME

PURGE ENDED:

6.7.12 12:07

ACT. VOL. PURGED:

1.40 GAL.

Draw Down:

28.84

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:03	25.53	386	5.74	1.35	2.73 =
AB JC	12:05	25.53	379	5.70	0.91	2.29
AB JC	12:07	25.53	379	5.68	0.43	1.60

SAMPLE CONTAINERS

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

4

TOTAL No..OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6.7.12 12:07

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0 7/12 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AS

REP. OF SOLID WASTE DEPT. 6-7-12 2:30

ACCEPTED BY: Carol McHenry

REP. OF CONTRACT LAB. 6-7-12 2:30

COMMENT'S: W0#0062

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AB REP. OF SOLID WASTE DEPT. 6-3-12 3:00

LOCATION: P-18S WACS# 27752 SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ 76 ☐

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 42.50 Ft.

DEPTH TO WATER: 19.51 Ft.

LENGTH OF WATER COL: 22.99 Ft.

VOLUME TO PURGE: 3.48 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

6.7.12 | 10:59

0.25 GPM.

DATE | TIME

6.7.12 | 11:18

4.75 GAL.

20.30

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:14	24.73	134	4.81	.85	14.6 =
AB JC	11:14	24.75	140	4.86	.64	15.0
AB JC	11:18	24.70	142	4.82	.64	16.3

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6-7-12 11:18

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: AB REP. OF SOLID WASTE DEPT. 6-7-12 2:30

ACCEPTED BY: Carol McIndoo REP. OF CONTRACT LAB. 6-7-12 2:30

COMMENT'S: W09# 0062

H2S odor

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Asu REP. OF SOLID WASTE DEPT. 6-7-12 3:00

LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION : A. Balloon & JG ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

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

13

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6-7-12 _____

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Asu REP. OF SOLID WASTE DEPT. 6-7-12 2:30

ACCEPTED BY: Carol McNeilly REP. OF CONTRACT LAB. 6-7-12 2:30

COMMENT'S: W07#0062

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: [Signature] REP. OF SOLID WASTE DEPT. 6.3.12 | 3:00

LOCATION: TH-40 WACS# 822

SAMPLE MATRIX: WATER OTHER MATRIX: _____

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

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 165.90 Ft.

DEPTH TO WATER: 113.30 Ft.

LENGTH OF WATER COL: 52.60 Ft.

VOLUME TO PURGE: 8.42 Gal.

PURGE STARTED: 6.7.12 | 9:10

PURGE RATE: 1.00 GPM.

PURGE ENDED: 6.7.12 | 9:48

ACT. VOL. PURGED: 12.008 GAL.

Draw Down: 113.27

FIELD PARAMETERS:

By	Time BY	Temp TIME	Cond TEMP	PH COND	DO PH	Temp DO	TURB
ABJC	9:18	23.42	383	7.01	.99	.48	—
ABJC	9:20	23.42	381	7.08	.81	.48	—
ABJC	9:22	23.42	382	7.13	.75	.48	—

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6.7.12 | 9:12

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: [Signature] REP. OF SOLID WASTE DEPT. 6-7-12 2:30

ACCEPTED BY: [Signature] REP. OF CONTRACT LAB. 6-7-12 2:30

COMMENT'S: W040062

2.7 C W07

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY:

REP. OF CONTRACT LAB.

ACCEPTED BY:

REP. OF SOLID WASTE DEPT.

6-3-12 | 3:00

LOCATION: BLANK, EQUIPMENT

SAMPLE MATRIX: WATER OTHER MATRIX:

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ J. ☐

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

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

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6-7-12 9:00

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

PRESERVED SAMPLES PH < 2.0

SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY:

REP. OF SOLID WASTE DEPT.

DATE | TIME

ACCEPTED BY:

REP. OF CONTRACT LAB.

6-7-12 2:30

COMMENT'S: W040062

SOUTHEAST LANDFILL WELL MONITORING PROGRAM

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: ABC REP. OF SOLID WASTE DEPT. 6-3-12 3:00

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

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

WELL DIAMETER: 2.00 INCH:

TOTAL DEPTH OF WELL: 46.19 Ft.

DEPTH TO WATER: 24.08 Ft.

LENGTH OF WATER COL: 22.11 Ft.

VOLUME TO PURGE: 3.54 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

6.7.12 | 11:32

0.30 GPM.

DATE | TIME

6.7.12 | 11:47

4.50 GAL.

24.47

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB SC	11:43	23.52	425	4.18	.18	1.03 =
AB SC	11:45	23.52	427	4.22	.18	1.09
AB SC	11:47	23.52	430	4.25	.17	1.09

SAMPLE CONTAINERS

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

6/ TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6.7.12 | 11:47

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: ABC REP. OF SOLID WASTE DEPT. 6-7-12 2:30

ACCEPTED BY: Chad McHenry REP. OF CONTRACT LAB. 6-7-12 2:30

COMMENT'S: W0#0062

H2S odor

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

660-48141

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: _____ REP. OF SOLID WASTE DEPT. _____

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

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ J. Clayton ☐WELL DIAMETER: 2 INCH:TOTAL DEPTH OF WELL: 190.00 Ft.DEPTH TO WATER: 118.24 Ft.LENGTH OF WATER COL: 71.76 Ft.VOLUME TO PURGE: 11.48 Gal.

PURGE STARTED:

DATE | TIME

PURGE RATE:

6.8.12 | 10:120.35 GPM.

DATE | TIME

PURGE ENDED:

6.8.12 | 10:56

ACT. VOL. PURGED:

12.25 GAL.

Draw Down:

118.22

FIELD PARAMETERS:

(539, 540, 541) LC

BY	TIME	TEMP	COND	PH	DO	TURB
AB AC	10:52	23.38	5.39	7.05	.66	.54 =
AB AC	10:54	23.41	5.40	7.06	.66	.46
AB AC	10:56	23.40	5.41	7.07	.72	.26

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

6.8.12 | 10:56

ANALYSIS REQUESTED:

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Lin Clayton REP. OF SOLID WASTE DEPT.ACCEPTED BY: Carol McNeilly REP. OF CONTRACT LAB.

DATE | TIME

6.8.12 | 3:056.8.12 | 3:05COMMENT'S: 4000-07

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: Asa REP. OF SOLID WASTE DEPT. 6-3-12 3:00LOCATION: TH-28A WACS# 19862SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION

☒ A. Balloon ☒ J. Clayton ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 34.30 Ft.DEPTH TO WATER: 28.45 Ft.LENGTH OF WATER COL: 5.85 Ft.VOLUME TO PURGE: 0.94 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

6.8.12 11:080.20 GPM.

DATE | TIME

6.8.12 11:161.40 GAL.29.11

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:12	26.69	274	5.42	1.20	4.32 =
AB JC	11:14	26.74	275	5.36	1.21	4.39
AB JC	11:16	26.73	274	5.31	1.18	4.36

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6-8-12 11:16

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 4.5 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: Asa REP. OF SOLID WASTE DEPT. 6-8-12 3:05ACCEPTED BY: Casey McManis REP. OF CONTRACT LAB. 6-8-12 3:05COMMENT'S: W07# 0062

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: ASL REP. OF SOLID WASTE DEPT. 6-8-12 3:00LOCATION: TH-57 WACS# 1570SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 26.83 Ft.DEPTH TO WATER: 19.50 Ft.LENGTH OF WATER COL: 7.33 Ft.VOLUME TO PURGE: 1.17 Gal.PURGE STARTED: 6.8.12 11:30PURGE RATE: 0.25 GPM.

DATE | TIME

PURGE ENDED: 6.8.12 11:35ACT. VOL. PURGED: 2.00 GAL.Draw Down: 20.20

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	11:34	24.05	124	4.89	0.40	1.29 =
AB JC	11:34	24.04	124	4.87	0.37	1.13
AB JC	11:38	26.04	127	4.84	0.29	0.82

SAMPLE CONTAINERS

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

4

TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

6-8-12 11:38

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 4.85 SAMPLE STORAGE: COOLER & ICE TO 4.0 c

ABOVE LISTED SAMPLES:

RELINQUISHED BY: ASL REP. OF SOLID WASTE DEPT. 6-8-12 3:05ACCEPTED BY: Carol McHenry REP. OF CONTRACT LAB. 6-8-12 3:05COMMENT'S: W07 0062HILLSBOROUGH COUNTY DEPT. OF SOLID WASTE COC SHEET
SOUTHEAST LANDFILL WELL MONITORING PROGRAM

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: ASU REP. OF SOLID WASTE DEPT. 6-3-12 3:00

LOCATION: SUP 2 WACS# 27756 SAMPLE MATRIX: WATER OTHER MATRIX: _____

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

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 6.8.12 TIME 11:55

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:10	24.99	304	7.07	.12	0.00 =
AB JC	12:12	25.10	304	7.14	.11	0.00
AB JC	12:14	25.07	304	7.15	.10	0.05

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

**COLLECTED
DATE | TIME**
6.8.12 12:14

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: _____ DATE | TIME

RELINQUISHED BY: ASU REP. OF SOLID WASTE DEPT. 6-8-12 3:05

ACCEPTED BY: Carol McHenry REP. OF CONTRACT LAB. 6-8-12 3:05

COMMENT'S: W0#0082

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: BC REP. OF SOLID WASTE DEPT. 6-3-12 | 3:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐ 12:40

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 6.8.12 TIME 12:21

ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:34	24.65	292	7.21	.08	.02 =
AB JC	12:38	24.65	292	7.25	.07	.03
AB JC	12:40	24.60	292	7.29	.06	.07

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
6.8.12 | 12:40

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES: _____ DATE | TIME
RELINQUISHED BY: BC REP. OF SOLID WASTE DEPT. 6-8-12 | 3:05
ACCEPTED BY: Carol McInnis REP. OF CONTRACT LAB. 6-8-12 | 3:05

COMMENT'S: W046062

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48118-1

Login Number: 48118

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.7 deg C CU-07
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

14

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48118-1

Login Number: 48141

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	4.0c CU-07
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

14

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: 660-48142-1

Client Project/Site: Southeast Landfill 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:

6/22/2012 12:00:25 PM

Nancy Robertson

Project Manager II

nancy.robertson@testamericainc.com

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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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	19

Definitions/Glossary

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

TestAmerica Job ID: 660-48142-1

3

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

General Chemistry

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

Glossary

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

Case Narrative

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

TestAmerica Job ID: 660-48142-1

Job ID: 660-48142-1

Laboratory: TestAmerica Tampa



Narrative

Job Narrative
660-48142-1

Comments

No additional comments.

Receipt

The samples were received on 6/8/2012 3:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

Metals

Method 6010B: The matrix spike duplicate (MSD) recovery for sodium in batch 125452 was outside control limits with the parent sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 125600 were outside control limits with the parent sample greater than 4x the spike level. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 125705 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-48142-1

Client Sample ID: TH-74

Lab Sample ID: 660-48142-1

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	37		2.5	1.0	mg/L	5			300.0	Total/NA
Ammonia as N	3.0		0.060	0.030	mg/L	1			350.1	Total/NA
Total Dissolved Solids	210		10	10	mg/L	1			SM 2540C	Total/NA
Field pH	5.35				SU	1			Field Sampling	Total/NA
Field Temperature	22.48				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.75				mg/L	1			Field Sampling	Total/NA
Specific Conductance	334				umhos/cm	1			Field Sampling	Total/NA
Turbidity	6.92				NTU	1			Field Sampling	Total/NA

Client Sample ID: TH-75

Lab Sample ID: 660-48142-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	9.5	I	10	4.0	ug/L	1			6010B	Total
										Recoverable
Iron	10000		200	50	ug/L	1			6010B	Total
										Recoverable
Sodium	40		0.50	0.31	mg/L	1			6010B	Total
										Recoverable
Chloride	140		2.5	1.0	mg/L	5			300.0	Total/NA
Ammonia as N	1.5		0.060	0.030	mg/L	1			350.1	Total/NA
Total Dissolved Solids	480		17	17	mg/L	1			SM 2540C	Total/NA
Field pH	5.61				SU	1			Field Sampling	Total/NA
Field Temperature	22.87				Degrees C	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.39				mg/L	1			Field Sampling	Total/NA
Specific Conductance	702				umhos/cm	1			Field Sampling	Total/NA
Turbidity	5.69				NTU	1			Field Sampling	Total/NA

5

Client Sample Results

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

TestAmerica Job ID: 660-48142-1

Client Sample ID: TH-74

Lab Sample ID: 660-48142-1

Date Collected: 06/08/12 09:40

Matrix: Ground Water

Date Received: 06/08/12 15:05

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		06/13/12 09:43	06/14/12 09:36	1
Iron	20000		200	50	ug/L		06/13/12 09:43	06/14/12 09:36	1
Sodium	16		0.50	0.31	mg/L		06/13/12 09:43	06/14/12 09:36	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		2.5	1.0	mg/L			06/15/12 16:19	5
Ammonia as N	3.0		0.060	0.030	mg/L			06/16/12 12:34	1
Total Dissolved Solids	210		10	10	mg/L			06/14/12 12:32	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.36				SU			06/08/12 09:40	1
Field Temperature	22.48				Degrees C			06/08/12 09:40	1
Oxygen, Dissolved	0.75				mg/L			06/08/12 09:40	1
Specific Conductance	334				umhos/cm			06/08/12 09:40	1
Turbidity	6.92				NTU			06/08/12 09:40	1

Client Sample Results

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

TestAmerica Job ID: 660-48142-1

Client Sample ID: TH-75

Lab Sample ID: 660-48142-2

Date Collected: 06/08/12 10:03

Matrix: Ground Water

Date Received: 06/08/12 15:05

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.5	I	10	4.0	ug/L		06/13/12 09:43	06/14/12 09:39	1
Iron	10000		200	50	ug/L		06/13/12 09:43	06/14/12 09:39	1
Sodium	40		0.50	0.31	mg/L		06/13/12 09:43	06/14/12 09:39	1

6

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		2.5	1.0	mg/L			06/18/12 10:33	5
Ammonia as N	1.5		0.060	0.030	mg/L			06/16/12 12:35	1
Total Dissolved Solids	480		17	17	mg/L			06/14/12 12:33	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.61				SU			06/08/12 10:03	1
Field Temperature	22.87				Degrees C			06/08/12 10:03	1
Oxygen, Dissolved	0.39				mg/L			06/08/12 10:03	1
Specific Conductance	702				umhos/cm			06/08/12 10:03	1
Turbidity	5.69				NTU			06/08/12 10:03	1

QC Sample Results

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

TestAmerica Job ID: 660-48142-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-125452/1-A
Matrix: Water
Analysis Batch: 125508

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 125452

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	4.0	U	10	4.0	ug/L		06/13/12 09:43	06/14/12 08:52	1
Iron	50	U	200	50	ug/L		06/13/12 09:43	06/14/12 08:52	1
Sodium	0.31	U	0.50	0.31	mg/L		06/13/12 09:43	06/14/12 08:52	1

7

Lab Sample ID: LCS 660-125452/2-A
Matrix: Water
Analysis Batch: 125508

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 125452

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
Arsenic	1000	1020		ug/L		102	75 - 125	
Iron	1000	1010		ug/L		101	75 - 125	
Sodium	10.0	10.3		mg/L		103	75 - 125	

Lab Sample ID: 660-48188-A-1-B MS
Matrix: Water
Analysis Batch: 125508

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 125452

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier					
Arsenic	20		1000	1150		ug/L		113	75 - 125	
Iron	130	I	1000	1120		ug/L		99	75 - 125	
Sodium	620	J3	10.0	631		mg/L		99	75 - 125	

Lab Sample ID: 660-48188-A-1-C MSD
Matrix: Water
Analysis Batch: 125508

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 125452

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits		RPD	Limit
	Result	Qualifier		Result	Qualifier							
Arsenic	20		1000	1150		ug/L		113	75 - 125		1	20
Iron	130	I	1000	1140		ug/L		101	75 - 125		2	20
Sodium	620	J3	10.0	627	J3	mg/L		65	75 - 125		1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-125600/4
Matrix: Water
Analysis Batch: 125600

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

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			06/15/12 09:36	1

Lab Sample ID: LCS 660-125600/5
Matrix: Water
Analysis Batch: 125600

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
Chloride	10.0	9.79		mg/L		98	90 - 110	

QC Sample Results

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

TestAmerica Job ID: 660-48142-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-48142-2 MS								Client Sample ID: TH-75		
Matrix: Ground Water								Prep Type: Total/NA		
Analysis Batch: 125600										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	54		10.0	50.3	J3	mg/L		-36	90 - 110	

Lab Sample ID: 660-48142-2 MSD								Client Sample ID: TH-75		
Matrix: Ground Water								Prep Type: Total/NA		
Analysis Batch: 125600										
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD Limit
Chloride	54		10.0	50.3	J3	mg/L		-36	90 - 110	0 30

Lab Sample ID: MB 660-125705/4								Client Sample ID: Method Blank		
Matrix: Water								Prep Type: Total/NA		
Analysis Batch: 125705										
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	0.20	U	0.50	0.20	mg/L			06/18/12 10:02	1	

Lab Sample ID: LCS 660-125705/5								Client Sample ID: Lab Control Sample		
Matrix: Water								Prep Type: Total/NA		
Analysis Batch: 125705										
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride			10.0	9.85		mg/L		98	90 - 110	

Lab Sample ID: 660-48202-A-1 MS								Client Sample ID: Matrix Spike		
Matrix: Water								Prep Type: Total/NA		
Analysis Batch: 125705										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	35	J3	10.0	42.7	J3	mg/L		77	90 - 110	

Lab Sample ID: 660-48202-A-1 MSD								Client Sample ID: Matrix Spike Duplicate		
Matrix: Water								Prep Type: Total/NA		
Analysis Batch: 125705										
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD Limit
Chloride	35	J3	10.0	42.7	J3	mg/L		77	90 - 110	0 30

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-125593/11								Client Sample ID: Method Blank		
Matrix: Water								Prep Type: Total/NA		
Analysis Batch: 125593										
Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Ammonia as N	0.030	U	0.060	0.030	mg/L			06/16/12 12:23	1	

QC Sample Results

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

TestAmerica Job ID: 660-48142-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 660-125593/12
Matrix: Water
Analysis Batch: 125593

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	0.500	0.504		mg/L		101	90 - 110

Lab Sample ID: 660-48141-C-1 MS
Matrix: Water
Analysis Batch: 125593

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	1.0		1.00	2.09		mg/L		107	90 - 110

Lab Sample ID: 660-48141-C-1 MSD
Matrix: Water
Analysis Batch: 125593

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N	1.0		1.00	2.08		mg/L		106	90 - 110	0	30

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

Lab Sample ID: MB 660-125512/1
Matrix: Water
Analysis Batch: 125512

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			06/14/12 12:23	1

Lab Sample ID: LCS 660-125512/2
Matrix: Water
Analysis Batch: 125512

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	9960		mg/L		100	80 - 120

Lab Sample ID: 640-38986-A-1 DU
Matrix: Water
Analysis Batch: 125512

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	320		328		mg/L		4	20

QC Association Summary

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

TestAmerica Job ID: 660-48142-1

Metals

Prep Batch: 125452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48142-1	TH-74	Total Recoverable	Ground Water	3005A	
660-48142-2	TH-75	Total Recoverable	Ground Water	3005A	
660-48188-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-48188-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 660-125452/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-125452/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 125508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48142-1	TH-74	Total Recoverable	Ground Water	6010B	125452
660-48142-2	TH-75	Total Recoverable	Ground Water	6010B	125452
660-48188-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	125452
660-48188-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	125452
LCS 660-125452/2-A	Lab Control Sample	Total Recoverable	Water	6010B	125452
MB 660-125452/1-A	Method Blank	Total Recoverable	Water	6010B	125452

General Chemistry

Analysis Batch: 125512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38986-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-48142-1	TH-74	Total/NA	Ground Water	SM 2540C	
660-48142-2	TH-75	Total/NA	Ground Water	SM 2540C	
LCS 660-125512/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-125512/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 125593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48141-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
660-48141-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-48142-1	TH-74	Total/NA	Ground Water	350.1	
660-48142-2	TH-75	Total/NA	Ground Water	350.1	
LCS 660-125593/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-125593/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 125600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48142-1	TH-74	Total/NA	Ground Water	300.0	
660-48142-2 MS	TH-75	Total/NA	Ground Water	300.0	
660-48142-2 MSD	TH-75	Total/NA	Ground Water	300.0	
LCS 660-125600/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-125600/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 125705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48142-2	TH-75	Total/NA	Ground Water	300.0	
660-48202-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
660-48202-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-125705/5	Lab Control Sample	Total/NA	Water	300.0	
MB 660-125705/4	Method Blank	Total/NA	Water	300.0	

QC Association Summary

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

TestAmerica Job ID: 660-48142-1

Field Service / Mobile Lab

Analysis Batch: 125407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48142-1	TH-74	Total/NA	Ground Water	Field Sampling	
660-48142-2	TH-75	Total/NA	Ground Water	Field Sampling	

8

Lab Chronicle

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

TestAmerica Job ID: 660-48142-1

Client Sample ID: TH-74

Lab Sample ID: 660-48142-1

Date Collected: 06/08/12 09:40

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125452	06/13/12 09:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125508	06/14/12 09:38	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:32	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:34	TO	TAL TAM
Total/NA	Analysis	300.0		5	125600	06/15/12 16:19	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 09:40		TAL TAM

9

Client Sample ID: TH-75

Lab Sample ID: 660-48142-2

Date Collected: 06/08/12 10:03

Matrix: Ground Water

Date Received: 06/08/12 15:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			125452	06/13/12 09:43	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	125508	06/14/12 09:39	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	125512	06/14/12 12:33	TO	TAL TAM
Total/NA	Analysis	350.1		1	125593	06/16/12 12:35	TO	TAL TAM
Total/NA	Analysis	300.0		5	125705	06/18/12 10:33	KW	TAL TAM
Total/NA	Analysis	Field Sampling		1	125407	06/08/12 10:03		TAL TAM

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 660-48142-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

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

TestAmerica Job ID: 660-48142-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

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

TestAmerica Job ID: 660-48142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-48142-1	TH-74	Ground Water	06/08/12 09:40	06/08/12 15:05
660-48142-2	TH-75	Ground Water	06/08/12 10:03	06/08/12 15:05

12

660-48142

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: AS REP. OF SOLID WASTE DEPT 6-3-12 3:00LOCATION: TH-74 WACS# 28307 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION ☒ A. Balloon ☒ JC ☐WELL DIAMETER: 2 INCH:TOTAL DEPTH OF WELL: 17.00 Ft.DEPTH TO WATER: 9.72 Ft.LENGTH OF WATER COL: 7.28 Ft.VOLUME TO PURGE: 1.14 Gal.

PURGE STARTED:

DATE | TIME

6.8.12 9:31

PURGE RATE:

0.20 GPM.

DATE | TIME

PURGE ENDED:

6.8.12 9:40

ACT. VOL. PURGED:

1.80 GAL.

Draw Down:

10.15

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:34	22.48	334	5.28	1.42	7.50 =
AB JC	9:38	22.48	334	5.34	1.02	7.20
AB JC	9:40	22.48	334	5.35	0.75	6.92

SAMPLE CONTAINERS

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

4

TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

6.8.12 9:40

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 YES SAMPLE STORAGE: COOLER & ICE TO 4.0 CABOVE LISTED SAMPLES: ASRELINQUISHED BY: _____ REP. OF SOLID WASTE DEPT. 6-8-12 3:05ACCEPTED BY: Carol McMillan REP. OF CONTRACT LAB. 6-8-12 3:05COMMENT'S: W040062 4.0 C 6-17

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____

ACCEPTED BY: ASL REP. OF SOLID WASTE DEPT 6-8-12 3:00

LOCATION: **TH-75 WACS# 28308**

SAMPLE MATRIX: **WATER** OTHER MATRIX: _____

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

WELL DIAMETER: **2** INCH:

TOTAL DEPTH OF WELL: 17.00 Ft.

DEPTH TO WATER: 7.79 Ft.

LENGTH OF WATER COL: 9.21 Ft.

VOLUME TO PURGE: 1.47 Gal.

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

DATE | TIME

6.8.12 9:52

0.20 GPM.

DATE | TIME

6.8.12 10:03

2.20 GAL.

8.10

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:39	22.88	709	5.64	0.54	5.80 =
AB JC	10:01	22.89	705	5.63	0.45	6.27
AB JC	10:03	22.87	702	5.61	0.39	5.69

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

6.8.12 10:03

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: B. J. ... REP. OF SOLID WASTE DEPT.

ACCEPTED BY: Chad ... REP. OF CONTRACT LAB.

DATE | TIME

6.8.12 3:05

6.8.12 3:05

COMMENT'S: W/O#0062

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-48142-1

Login Number: 48142

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is 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	4.0c CU-07
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

14