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December 20, 2011

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. 15**

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 the continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address any 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 November 3-4, 2011, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples were collected from eleven (11) on-site groundwater monitoring wells and two (2) on-site limited use potable supply wells. Samples 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.

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 range from 4.60 to 5.84 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 monitoring wells and the two (2) on-site supply wells were all within the acceptable range, and continue to be 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 turbidity value in P-18S could not be reduced to below 20 NTU, therefore, a groundwater sample was again collected from TH-30. As previously discussed, the soils encountered during the installation of P-18S were primarily clays and clayey sands, which are known to exhibit turbid groundwater conditions. The turbidity value recorded in TH-42 was 20.6 NTU.

Conductivity

The conductivity values in most of the wells sampled are relatively low and have remained consistent with historical values associated with the SCLF. The surficial aquifer monitoring well, TH-58, has exhibited elevated conductivity values trending upward over the past year. The conductivity value observed in November was 1574 umhos/cm, which represents an increase from the October sampling event. The conductivity values in TH-73 have increased to 1273 umhos/cm in November, which is a significant increase from 345 umhos/cm in October. These observed impacts remain in close proximity to the sinkhole within the surficial aquifer and are not presently observed within the deeper upper Floridan aquifer. The conductivity values in both of these surficial aquifer wells will continue to be evaluated. The conductivity observed in TH-72 at 550 umhos/cm is slightly elevated when compared to the other Floridan wells, but does not present an immediate concern.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring wells, TH-58 and TH-73, exhibited TDS concentrations of 920 mg/l and 720 mg/l, respectively, and exceed the SDWS of 500 mg/l. The TDS value in TH-58 is lower from the results in October. However, TH-73, exhibited a significant increase in TDS from 220 mg/l the previous month. The County will continue to closely observe and evaluate TDS values in the surficial aquifer. The TDS value in TH-72, the upper Floridan well, is 290 mg/l, which is slightly above the other upper Floridan wells, but well below the SDWS.

Chloride

Surficial aquifer groundwater monitoring wells, TH-58 and TH-73, exhibited chloride concentrations of 340 and 360 mg/l, which exceed the SDWS of 250 mg/l. Over the period of record, chloride values have decreased in values over the last three months in TH-58. However, a potential increasing trend in chloride is apparent in TH-73. The chloride values in all the other wells are well below the SDWS, and the County will continue to evaluate the changes in chloride concentrations.

Arsenic

The arsenic observed in TH-58 is 0.026 mg/l, which is above the Primary Drinking Water Standard (PDWS) of 0.01 mg/l. Arsenic has been present above the PDWS in TH-58 for several years. Although changes in water quality have been observed in TH-58, the arsenic values have remained very stable. This observation supports the position that the arsenic is likely not attributable to the landfill or the sinkhole. The County has maintained the position that the arsenic is naturally occurring within the soils surrounding the well and is likely being mobilized in the anaerobic environment below the lined landfill.

Iron

Iron concentrations in six (6) surficial aquifer wells and one (1) upper Floridan well were observed above the SDWS of 0.3 mg/l. The concentrations of iron ranged from below the detection limit (BDL) to 26 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. The iron value observed in TH-42 at 0.36 mg/l may be naturally occurring in the weathered limestone and clay strata.

Total Ammonia

Ammonia concentrations were observed in surficial groundwater monitoring wells TH-73 and TH-74 at 7.3 mg/l and 2.9 mg/l, exceeding the Groundwater Cleanup Target Level (GCTL) of 2.8 mg/l. The increase from 1.8 mg/l to 7.3 mg/l in TH-73 may be indicative of water quality impacts from the sinkhole and/or the grouting fluids, and the concentration in TH-74 slightly above and TH-75 below the GCTL supports the position that the source of ammonia is in the area of the sinkhole. Overall, the remaining concentrations of ammonia within the surficial aquifer appear consistent with the water quality observations to date, and the County will continue to evaluate this component of water quality in both of these locations.

Mr. John Morris, P.G.
December 20, 2011
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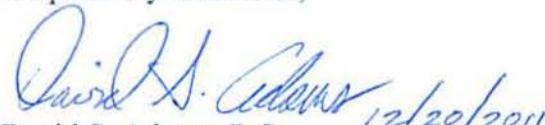
Conclusions

The water quality observed in the November 2011 sampling event in the wells closest to the sinkhole exhibit changes in conductivity, total dissolved solids, chloride, and total ammonia. These impacts are likely a result of the sinkhole and/or the grouting activities. The observed impacts remain in close proximity to the sinkhole within the surficial aquifer and are not present within the deeper upper Floridan aquifer. The two on-site supply wells continue to exhibit good water quality and no changes have been observed over the period of record.

Recommendations

The County recommends continuation of the IAMP sampling program on the approved monthly schedule, and associated evaluation of water quality in the eleven monitoring wells and two on-site supply wells. The County will continue to provide the IAMP reports within the specified time frames, and evaluate all available data as part of the ongoing assessment activities. Enclosed for your review please find a site location map depicting the on-site wells, the water quality data summary table, a groundwater elevation data table and associated contour 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,

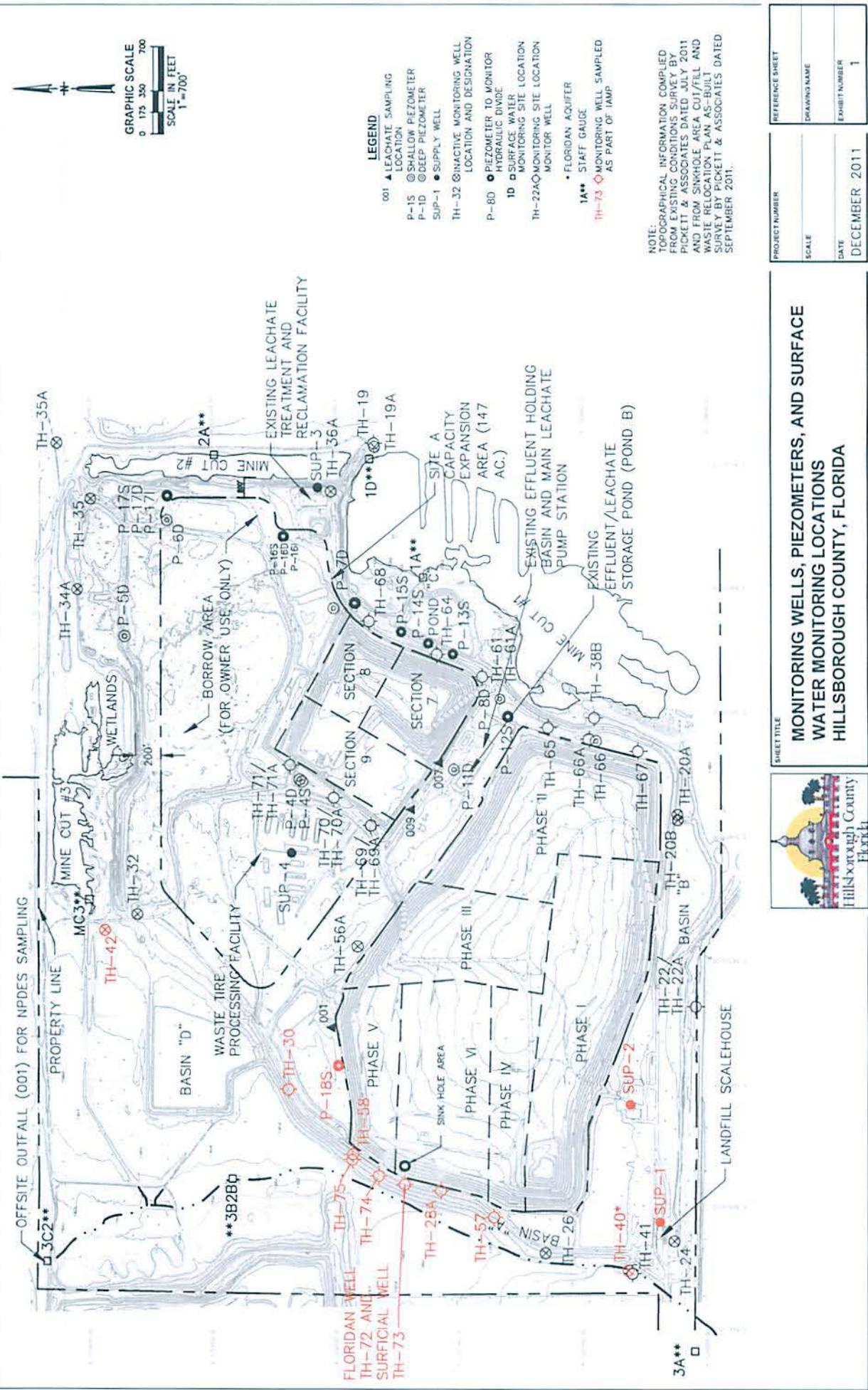


12/20/2011

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Hillsborough County Southeast Landfill
Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells
November 3-4, 2011

GENERAL (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	TH-74	TH-75	SUP-1	SUP-2	(MCL) STANDARD
PARAMETERS	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	TH-74	TH-75	SUP-1	SUP-2	F.A.C. 62-550
conductivity (umhos/cm) (field)	393	225	266	255	495	218	1574	550	1273	485	396	339	347	NS
dissolved oxygen (mg/l) (field)	0.59	0.8	0.16	0.41	0.23	0.25	0.87	1.80	0.30	0.51	0.25	0.05	0.07	NS
pH (field)	7.28	5.30	4.60	7.67	7.21	5.28	5.84	7.28	5.21	5.56	5.65	7.46	7.44	(6.5 - 8.5)**
temperature (°C) (field)	23.35	26.37	23.72	23.42	23.64	26.72	26.72	23.04	25.55	23.62	23.63	24.38	24.62	NS
turbidity (NTU) (field)	1.38	7.4	1.94	0.31	20.6	0.66	8.36	1.51	8.16	5.45	11.6	0.0	0.0	NS
total dissolved solids (mg/l)	220	110	170	210	260	130	920	290	720	280	220	170	180	500**
chloride (mg/l)	8	47	61	7.7	18	42	340	32	360	48	49	9.5	10	250**
ammonia nitrogen (mg/l as N)	0.28	1.4	1.2	0.32	0.25	1.2	0.73	0.29	7.3	2.9	1.4	0.15	0.16	2.8***
Metals: (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	TH-74	TH-75	SUP-1	SUP-2	(MCL) STANDARD
arsenic	>0.004 u	0.026	>0.004 u	>0.004 u	>0.004 u	0.0085 i	>0.004 u	>0.004 u	0.01*					
iron	>0.05 u	2.9	>0.05 u	>0.05 u	0.36	0.54	3.7	0.15 i	22	26	11	>0.05 u	>0.05 u	0.3**
sodium	14	18	22	16	16	14	81	34	97	20	14	8.6	8.6	160*

Note: Ref. Groundwater Guidance Concentrations, FDEP 2007

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

5.30 : EXCEEDS PRIMARY OR SECONDARY DRINKING WATER

ug/l=MICROGRAMS PER LITER

mg/l=MILLIGRAMS PER LITER

NS=NO STANDARD

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

November 1, 2011

Measuring Point I.D.	T.O.C. Elevations (NGVD)	11/01/2011 W.L. B.T.O.C.	W.L. (NGVD)	Time
P-4D	140.78	21.42	119.36	10:55 AM
P-4S	140.95	10.15	130.80	10:54 AM
P-5D	151.94	Dry	Dry	11:30 AM
P-6D-A	148.01	25.72	122.29	11:23 AM
P-7D	138.92	17.00	121.92	11:56 AM
P-8D	138.34	17.62	120.72	9:41 AM
P-11D	138.02	16.74	121.28	9:44 AM
P-12S	134.97	13.65	121.32	9:40 AM
P-13S	140.21	18.13	122.08	12:07 PM
P-14S	138.56	16.31	122.25	12:04 PM
P-15S	139.19	17.15	122.04	12:03 PM
P-16S	143.38	16.25	127.13	11:15 AM
P-16I	144.15	23.44	120.71	11:16 AM
P-16D	143.84	23.20	120.64	11:17 AM
P-17S	137.35	13.55	123.80	11:37 AM
P-17I	137.32	15.55	121.77	11:36 AM
P-17D	137.22	15.70	121.52	11:35 AM
P-18S	129.86	18.25	111.61	9:50 AM
P-19	133.36	11.50	121.86	11:26 AM
P-20	132.38	11.76	120.62	11:20 AM
P-21	122.79	2.36	120.43	11:02 AM
P-22	128.35	7.90	120.45	11:05 AM
P-23	143.13	22.57	120.56	11:09 AM
TH-19*	130.27	98.51	31.76	11:47 AM
TH-20A	131.86	9.99	121.87	9:23 AM
TH-20B	132.57	10.95	121.62	9:24 AM
TH-22	128.82	4.96	123.86	9:01 AM
TH-22A	129.27	5.56	123.71	9:00 AM
TH-24A	128.23	4.55	123.68	9:05 AM
TH-28A	131.10	28.20	102.90	10:04 AM
TH-30	128.88	23.94	104.94	9:55 AM
TH-32	129.90	12.50	117.40	10:40 AM
TH-35	145.98	28.08	117.90	11:39 AM
TH-36A	152.70	32.60	120.10	11:53 AM
TH-38A	130.68	10.11	120.57	9:31 AM
TH-38B	131.81	10.81	121.00	9:30 AM
TH-40*	124.99	95.45	29.54	9:09 AM
TH-41*	125.00	98.40	26.60	9:10 AM
TH-42*	116.74	74.50	42.24	10:37 AM
TH-57	128.36	19.20	109.16	10:06 AM
TH-58	127.88	27.91	99.97	9:58 AM
TH-61	138.73	16.74	121.99	12:10 PM
TH-61A	139.45	17.30	122.15	12:11 PM
TH-64	139.64	16.62	123.02	12:06 PM
TH-65	135.40	14.11	121.29	9:34 AM
TH-66	130.58	8.71	121.87	9:28 AM
TH-66A	130.66	9.75	120.91	9:29 AM
TH-67	129.51	5.95	123.56	9:26 AM
TH-68	140.01	15.51	124.50	11:58 AM
TH-69A	144.97	24.97	120.00	10:46 AM
TH-70A	146.63	26.45	120.18	10:51 AM
TH-71A	146.95	25.70	121.25	10:57 AM
TH-72	130.96	103.37	27.59	10:01 AM
TH-73	131.07	31.27	99.80	10:02 AM
TH-74	ND	9.65	ND	10:10 AM
TH-75	ND	7.68	ND	10:13 AM
SW-3A	3.0'=125.53'	0.44	122.97	8:54 AM
SW-3B2B	3.0'=97.97'	1.68	96.65	10:20 AM
SW-3C2	6.0'=92.33'	1.35	87.68	10:25 AM
Mine Cut #1	4.0'=122.14'	2.32	120.46	12:00 PM
Mine Cut #2	6.0'=123.47'	2.92	120.39	11:44 AM
Mine Cut #3	4.0'=112.27'	2.02	110.29	10:34 AM
Mine Cut #4	5.0'=97.54'	1.48	94.02	10:31 AM

NGVD = National Geodetic Vertical Datum

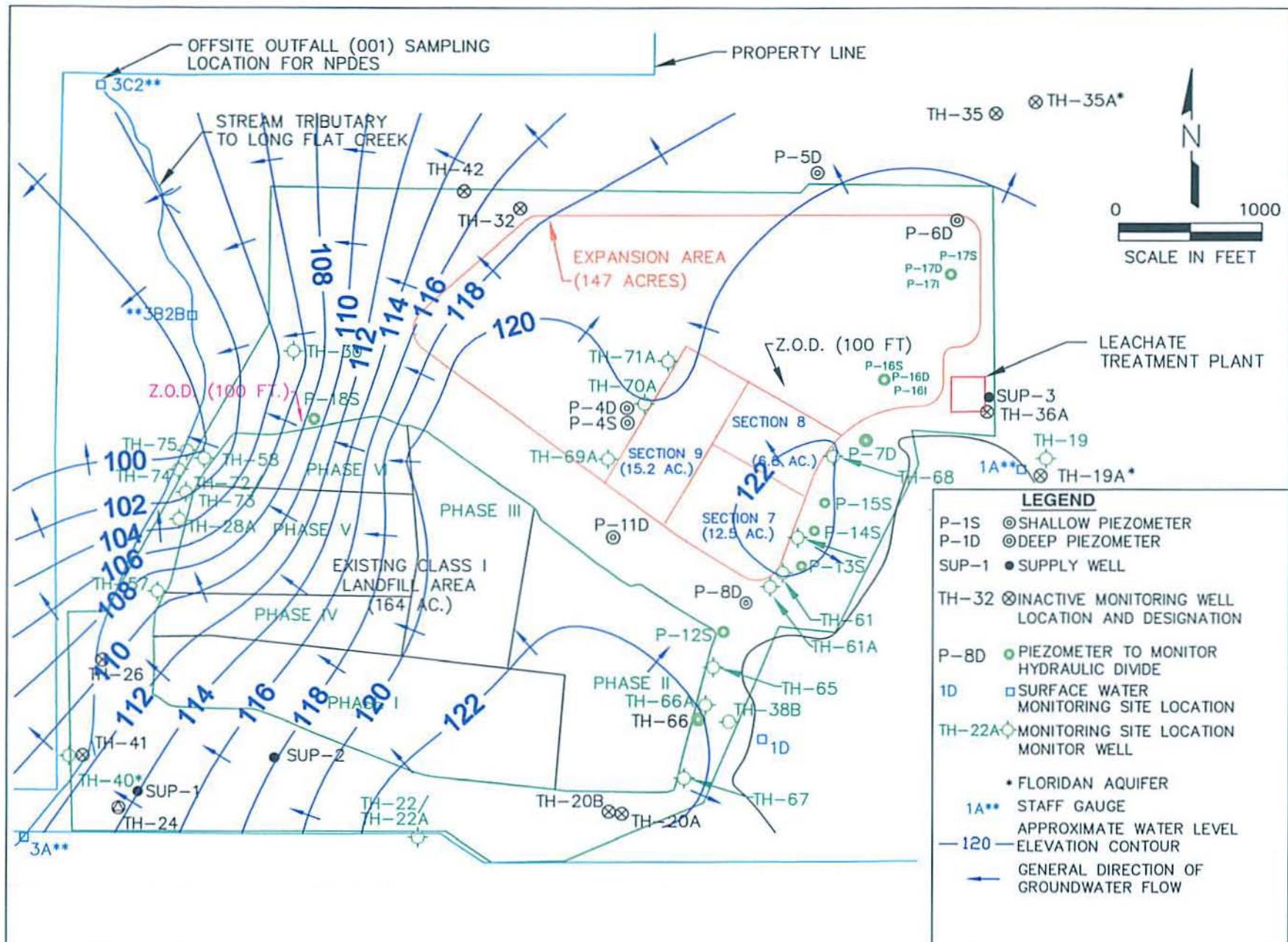
T.O.C. = Top of Casing

B.T.O.C. = Below Top of Casing

* = Floridan Well

ND = No Data

W.L. = Water Level



Southeast County Landfill
Groundwater Elevation Contour Diagram – November 1, 2011

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: 660-44490-1

Client Project/Site: Southeast Landfill

For:

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

Attn: David Adams



Authorized for release by:

11/17/2011 9:26:19 AM

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

LINKS

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The
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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.

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Definitions/Glossary

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

TestAmerica Job ID: 660-44490-1

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Qualifiers

Metals

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

General Chemistry

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

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

<input checked="" type="checkbox"/>	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
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 660-44490-1

Job ID: 660-44490-1

Laboratory: TestAmerica Tampa

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Narrative

**Job Narrative
660-44490-1**

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 117322 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 117462 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 300.0: The matrix spike duplicate (MSD) recovery for batch 117523 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 117196 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-44490-1

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Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-44490-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.84				SU	1		Field Sampling	Total/NA
Field Temperature	26.72				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.87				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1574				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.36				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1		6010B	Total Recovera
Iron	3700		200	50	ug/L	1		6010B	Total Recovera
Sodium	81		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	340		10	4.0	mg/L	20		300.0	Total/NA
Ammonia as N	0.73 J3		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	920		50	50	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-73 WACS#27754

Lab Sample ID: 660-44490-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.21				SU	1		Field Sampling	Total/NA
Field Temperature	25.55				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1273				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.16				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	22000		200	50	ug/L	1		6010B	Total Recovera
Sodium	97		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	360		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	7.3		0.040	0.020	mg/L	2		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	720		25	25	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-44490-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.67				SU	1		Field Sampling	Total/NA
Field Temperature	23.42				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.41				mg/L	1		Field Sampling	Total/NA
Specific Conductance	255				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.31				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	16		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	7.7		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.32		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	210		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 660-44490-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	26000		200	50	ug/L	1		6010B	Total Recovera
Sodium	20		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	48		2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	2.4		0.020	0.010	mg/L	1		350.1	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: Duplicate (Continued)

Lab Sample ID: 660-44490-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	270		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-44490-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.60			SU		1		Field Sampling	Total/NA
Field Temperature	23.72			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.16			mg/L		1		Field Sampling	Total/NA
Specific Conductance	266			umhos/cm		1		Field Sampling	Total/NA
Turbidity	1.94			NTU		1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	220		200	50	ug/L	1		6010B	Total Recovera
Sodium	22		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	61		2.5	1.0	mg/L	5		300.0	Total/NA
Ammonia as N	1.2		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	170		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-44490-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.26			SU		1		Field Sampling	Total/NA
Field Temperature	26.72			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25			mg/L		1		Field Sampling	Total/NA
Specific Conductance	218			umhos/cm		1		Field Sampling	Total/NA
Turbidity	0.66			NTU		1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	540		200	50	ug/L	1		6010B	Total Recovera
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	42		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.2		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	130		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Blank, Equipment

Lab Sample ID: 660-44490-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	0.52		0.50	0.31	mg/L	1		6010B	Total Recovera
Ammonia as N	0.066		0.020	0.010	mg/L	1		350.1	Total/NA

Client Sample ID: SUP 1 WACS# 27756

Lab Sample ID: 660-44519-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.46			SU		1		Field Sampling	Total/NA
Field Temperature	24.38			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.05			mg/L		1		Field Sampling	Total/NA
Specific Conductance	339			umhos/cm		1		Field Sampling	Total/NA
Turbidity	0.0			NTU		1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.6		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	9.5		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.15		0.020	0.010	mg/L	1		350.1	Total/NA

Detection Summary

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: SUP 1 WACS# 27756 (Continued)

Lab Sample ID: 660-44519-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	170		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-44519-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.30			SU		1		Field Sampling	Total/NA
Field Temperature	26.37			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.80			mg/L		1		Field Sampling	Total/NA
Specific Conductance	225			umhos/cm		1		Field Sampling	Total/NA
Turbidity	7.40			NTU		1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2900		200	50	ug/L	1		6010B	Total Recovera
Sodium	18		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	47		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.4		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	110		5.0	5.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-44519-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.28			SU		1		Field Sampling	Total/NA
Field Temperature	23.35			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	0.59			mg/L		1		Field Sampling	Total/NA
Specific Conductance	393			umhos/cm		1		Field Sampling	Total/NA
Turbidity	1.38			NTU		1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	8.0	J3	0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.28		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-44519-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.28			SU		1		Field Sampling	Total/NA
Field Temperature	23.04			Degrees C		1		Field Sampling	Total/NA
Oxygen, Dissolved	1.80			mg/L		1		Field Sampling	Total/NA
Specific Conductance	550			umhos/cm		1		Field Sampling	Total/NA
Turbidity	1.51			NTU		1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	150	I	200	50	ug/L	1		6010B	Total Recovera
Sodium	34		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	32		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.29		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	290		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-44519-5

Detection Summary

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-42 WACS# 823 (Continued)

Client Sample ID: TH-42 WACS# 823 (Continued)							Lab Sample ID: 660-44519-5			
Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type	
Field pH	7.21				SU	1	Field Sampling	Total/NA		
Field Temperature	23.64				Degrees C	1	Field Sampling	Total/NA		
Oxygen, Dissolved	0.23				mg/L	1	Field Sampling	Total/NA		
Specific Conductance	495				umhos/cm	1	Field Sampling	Total/NA		
Turbidity	20.6				NTU	1	Field Sampling	Total/NA		
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Iron	360		200	50	ug/L	1	6010B	Total Recovera		
Sodium	16		0.50	0.31	mg/L	1	6010B	Total Recovera		
Chloride	18		0.50	0.20	mg/L	1	300.0	Total/NA		
Ammonia as N	0.25		0.020	0.010	mg/L	1	350.1	Total/NA		
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type	
Total Dissolved Solids	260		10	10	mg/L	1	SM 2540C	Total/NA		

Client Sample ID: SUP 2 WASC# 27755

Client Sample ID: SUP 2 WASC# 27755							Lab Sample ID: 660-44519-6			
Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type	
Field pH	7.44				SU	1	Field Sampling	Total/NA		
Field Temperature	24.62				Degrees C	1	Field Sampling	Total/NA		
Oxygen, Dissolved	0.07				mg/L	1	Field Sampling	Total/NA		
Specific Conductance	347				umhos/cm	1	Field Sampling	Total/NA		
Turbidity	0.0				NTU	1	Field Sampling	Total/NA		
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Sodium	8.6		0.50	0.31	mg/L	1	6010B	Total Recovera		
Chloride	10		0.50	0.20	mg/L	1	300.0	Total/NA		
Ammonia as N	0.16		0.020	0.010	mg/L	1	350.1	Total/NA		
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type	
Total Dissolved Solids	180		10	10	mg/L	1	SM 2540C	Total/NA		

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Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-44490-1

Date Collected: 11/03/11 11:52

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		10	4.0	ug/L		11/07/11 09:17	11/08/11 09:53	1
Iron	3700		200	50	ug/L		11/07/11 09:17	11/08/11 09:53	1
Sodium	81		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		10	4.0	mg/L			11/11/11 16:25	20
Ammonia as N	0.73	J3	0.020	0.010	mg/L			11/07/11 16:04	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		50	50	mg/L			11/04/11 12:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.84				SU			11/03/11 11:52	1
Field Temperature	26.72				Degrees C			11/03/11 11:52	1
Oxygen, Dissolved	0.87				mg/L			11/03/11 11:52	1
Specific Conductance	1574				umhos/cm			11/03/11 11:52	1
Turbidity	8.36				NTU			11/03/11 11:52	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-73 WACS#27754

Lab Sample ID: 660-44490-2

Date Collected: 11/03/11 12:15

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 09:56	1
Iron	22000		200	50	ug/L		11/07/11 09:17	11/08/11 09:56	1
Sodium	97		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	360		5.0	2.0	mg/L			11/11/11 16:42	10
Ammonia as N	7.3		0.040	0.020	mg/L			11/07/11 16:16	2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	720		25	25	mg/L			11/04/11 12:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.21				SU			11/03/11 12:15	1
Field Temperature	25.55				Degrees C			11/03/11 12:15	1
Oxygen, Dissolved	0.30				mg/L			11/03/11 12:15	1
Specific Conductance	1273				umhos/cm			11/03/11 12:15	1
Turbidity	8.16				NTU			11/03/11 12:15	1

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Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-44490-3

Date Collected: 11/03/11 09:48

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 10:00	1
Iron	50	U	200	50	ug/L		11/07/11 09:17	11/08/11 10:00	1
Sodium	16		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 10:00	1

6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.7		0.50	0.20	mg/L			11/09/11 23:54	1
Ammonia as N	0.32		0.020	0.010	mg/L			11/07/11 16:09	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			11/04/11 12:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.67				SU			11/03/11 09:48	1
Field Temperature	23.42				Degrees C			11/03/11 09:48	1
Oxygen, Dissolved	0.41				mg/L			11/03/11 09:48	1
Specific Conductance	255				umhos/cm			11/03/11 09:48	1
Turbidity	0.31				NTU			11/03/11 09:48	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: Duplicate

Lab Sample ID: 660-44490-4

Matrix: Water

Date Collected: 11/03/11 00:00
 Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 10:03	1
Iron	26000		200	50	ug/L		11/07/11 09:17	11/08/11 10:03	1
Sodium	20		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48		2.5	1.0	mg/L			11/11/11 16:58	5
Ammonia as N	2.4		0.020	0.010	mg/L			11/07/11 16:10	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	270		10	10	mg/L			11/04/11 12:41	1

6

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-44490-5

Date Collected: 11/03/11 11:30

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 10:07	1
Iron	220		200	50	ug/L		11/07/11 09:17	11/08/11 10:07	1
Sodium	22		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61		2.5	1.0	mg/L			11/11/11 17:15	5
Ammonia as N	1.2		0.020	0.010	mg/L			11/07/11 16:11	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		5.0	5.0	mg/L			11/04/11 12:41	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.60				SU			11/03/11 11:30	1
Field Temperature	23.72				Degrees C			11/03/11 11:30	1
Oxygen, Dissolved	0.16				mg/L			11/03/11 11:30	1
Specific Conductance	266				umhos/cm			11/03/11 11:30	1
Turbidity	1.94				NTU			11/03/11 11:30	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-44490-6

Date Collected: 11/03/11 10:06

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 10:10	1
Iron	640		200	50	ug/L		11/07/11 09:17	11/08/11 10:10	1
Sodium	14		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		0.50	0.20	mg/L			11/11/11 17:31	1
Ammonia as N	1.2		0.020	0.010	mg/L			11/07/11 16:12	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	5.0	mg/L			11/04/11 12:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.26				SU			11/03/11 10:06	1
Field Temperature	26.72				Degrees C			11/03/11 10:06	1
Oxygen, Dissolved	0.26				mg/L			11/03/11 10:06	1
Specific Conductance	218				umhos/cm			11/03/11 10:06	1
Turbidity	0.66				NTU			11/03/11 10:06	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: Blank, Equipment

Lab Sample ID: 660-44490-7

Date Collected: 11/03/11 09:30

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 10:13	1
Iron	50	U	200	50	ug/L		11/07/11 09:17	11/08/11 10:13	1
Sodium	0.62		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 10:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.50	0.20	mg/L			11/14/11 14:32	1
Ammonia as N	0.066		0.020	0.010	mg/L			11/07/11 16:13	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/04/11 12:43	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: SUP 1 WACS# 27756

Lab Sample ID: 660-44519-1

Date Collected: 11/04/11 12:42

Matrix: Water

Date Received: 11/04/11 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 10:27	1
Iron	50	U	200	50	ug/L		11/07/11 09:17	11/08/11 10:27	1
Sodium	8.6		0.50	0.31	mg/L		11/07/11 09:17	11/08/11 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.5		0.50	0.20	mg/L			11/09/11 21:42	1
Ammonia as N	0.15		0.020	0.010	mg/L			11/07/11 15:38	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	170		10	10	mg/L			11/10/11 09:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.46				SU			11/04/11 12:42	1
Field Temperature	24.38				Degrees C			11/04/11 12:42	1
Oxygen, Dissolved	0.05				mg/L			11/04/11 12:42	1
Specific Conductance	339				umhos/cm			11/04/11 12:42	1
Turbidity	0.0				NTU			11/04/11 12:42	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-44519-2

Date Collected: 11/04/11 11:39

Matrix: Water

Date Received: 11/04/11 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/09/11 08:51	11/10/11 09:50	1
Iron	2900		200	50	ug/L		11/09/11 08:51	11/10/11 09:50	1
Sodium	18		0.50	0.31	mg/L		11/09/11 08:51	11/10/11 09:50	1

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47		0.50	0.20	mg/L			11/09/11 21:59	1
Ammonia as N	1.4		0.020	0.010	mg/L			11/07/11 15:39	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			11/10/11 09:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.30				SU			11/04/11 11:39	1
Field Temperature	26.37				Degrees C			11/04/11 11:39	1
Oxygen, Dissolved	0.80				mg/L			11/04/11 11:39	1
Specific Conductance	225				umhos/cm			11/04/11 11:39	1
Turbidity	7.40				NTU			11/04/11 11:39	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-44519-3

Date Collected: 11/04/11 09:48

Matrix: Water

Date Received: 11/04/11 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/09/11 08:51	11/10/11 09:54	1
Iron	50	U	200	50	ug/L		11/09/11 08:51	11/10/11 09:54	1
Sodium	14		0.50	0.31	mg/L		11/09/11 08:51	11/10/11 09:54	1

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.0	J3	0.50	0.20	mg/L			11/09/11 22:15	1
Ammonia as N	0.28		0.020	0.010	mg/L			11/07/11 15:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			11/10/11 09:42	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.28				SU			11/04/11 09:48	1
Field Temperature	23.35				Degrees C			11/04/11 09:48	1
Oxygen, Dissolved	0.59				mg/L			11/04/11 09:48	1
Specific Conductance	393				umhos/cm			11/04/11 09:48	1
Turbidity	1.38				NTU			11/04/11 09:48	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-44519-4

Date Collected: 11/04/11 11:14

Matrix: Water

Date Received: 11/04/11 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/09/11 08:51	11/10/11 10:04	1
Iron	150	I	200	50	ug/L		11/09/11 08:51	11/10/11 10:04	1
Sodium	34		0.50	0.31	mg/L		11/09/11 08:51	11/10/11 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		0.50	0.20	mg/L			11/09/11 22:32	1
Ammonia as N	0.29		0.020	0.010	mg/L			11/07/11 15:41	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		10	10	mg/L			11/10/11 09:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.28				SU			11/04/11 11:14	1
Field Temperature	23.04				Degrees C			11/04/11 11:14	1
Oxygen, Dissolved	1.80				mg/L			11/04/11 11:14	1
Specific Conductance	550				umhos/cm			11/04/11 11:14	1
Turbidity	1.51				NTU			11/04/11 11:14	1

Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-44519-5

Date Collected: 11/04/11 10:34

Matrix: Water

Date Received: 11/04/11 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/09/11 08:51	11/10/11 10:07	1
Iron	360		200	50	ug/L		11/09/11 08:51	11/10/11 10:07	1
Sodium	16		0.50	0.31	mg/L		11/09/11 08:51	11/10/11 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		0.50	0.20	mg/L			11/09/11 22:48	1
Ammonia as N	0.26		0.020	0.010	mg/L			11/07/11 15:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			11/10/11 09:43	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.21				SU			11/04/11 10:34	1
Field Temperature	23.64				Degrees C			11/04/11 10:34	1
Oxygen, Dissolved	0.23				mg/L			11/04/11 10:34	1
Specific Conductance	495				umhos/cm			11/04/11 10:34	1
Turbidity	20.6				NTU			11/04/11 10:34	1

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Client Sample Results

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: SUP 2 WASC# 27755

Lab Sample ID: 660-44519-6

Date Collected: 11/04/11 12:15

Matrix: Water

Date Received: 11/04/11 14:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/09/11 08:51	11/10/11 10:10	1
Iron	50	U	200	50	ug/L		11/09/11 08:51	11/10/11 10:10	1
Sodium	8.6		0.50	0.31	mg/L		11/09/11 08:51	11/10/11 10:10	1

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		0.50	0.20	mg/L			11/09/11 23:05	1
Ammonia as N	0.16		0.020	0.010	mg/L			11/07/11 15:44	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	180		10	10	mg/L			11/10/11 09:44	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.44				SU			11/04/11 12:15	1
Field Temperature	24.62				Degrees C			11/04/11 12:15	1
Oxygen, Dissolved	0.07				mg/L			11/04/11 12:15	1
Specific Conductance	347				umhos/cm			11/04/11 12:15	1
Turbidity	0.0				NTU			11/04/11 12:15	1

QC Sample Results

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

TestAmerica Job ID: 660-44490-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-117163/1-A

Matrix: Water

Analysis Batch: 117218

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	4.0	U	10	4.0	ug/L		11/07/11 09:17	11/08/11 09:10	1
Iron	50	U	200	50	ug/L		11/07/11 09:17	11/08/11 09:10	1
Sodium	0.31	U	0.50	0.31	mg/L		11/07/11 09:17	11/08/11 09:10	1

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 117163

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Lab Sample ID: LCS 660-117163/2-A

Matrix: Water

Analysis Batch: 117218

Analyte	Spiko		Added	LCS LCS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	1000		1000	1000		ug/L		100	75 - 125
Iron	1000		1000	1010		ug/L		101	75 - 125
Sodium	10.0		9.86			mg/L		99	75 - 125

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117163

Lab Sample ID: 660-44514-A-2-B MS

Matrix: Water

Analysis Batch: 117218

Analyte	Sample		Spike	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	4.0	U	1000	1020		ug/L		102	75 - 125
Iron	50	U	1000	1040		ug/L		104	75 - 125
Sodium	30		10.0	40.4		mg/L		101	75 - 125

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 117163

Lab Sample ID: 660-44514-A-2-C MSD

Matrix: Water

Analysis Batch: 117218

Analyte	Sample		Spike	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Arsenic	4.0	U	1000	999		ug/L		100	75 - 125	2	20
Iron	50	U	1000	1030		ug/L		103	75 - 125	1	20
Sodium	30		10.0	39.6		mg/L		93	75 - 125	2	20

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 117163

Lab Sample ID: MB 660-117259/1-A

Matrix: Water

Analysis Batch: 117343

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	4.0	U	10	4.0	ug/L		11/09/11 08:51	11/10/11 09:24	1
Iron	50	U	200	50	ug/L		11/09/11 08:51	11/10/11 09:24	1
Sodium	0.31	U	0.50	0.31	mg/L		11/09/11 08:51	11/10/11 09:24	1

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 117259

Lab Sample ID: LCS 660-117259/2-A

Matrix: Water

Analysis Batch: 117343

Analyte	Spike		Added	LCS LCS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	1000		1000	986		ug/L		99	75 - 125
Iron	1000		1000	1010		ug/L		101	75 - 125
Sodium	10.0		9.66			mg/L		97	75 - 125

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117259

QC Sample Results

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

TestAmerica Job ID: 660-44490-1

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

Lab Sample ID: 660-44548-E-5-B MS

Matrix: Water

Analysis Batch: 117343

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 117259

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	4.0	U	1000	1050		ug/L		105	75 - 125
Iron	50	U	1000	1040		ug/L		104	75 - 125
Sodium	87		10.0	96.3		mg/L		94	75 - 125

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Lab Sample ID: 660-44548-E-5-C MSD

Matrix: Water

Analysis Batch: 117343

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 117259

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Arsenic	4.0	U	1000	1050		ug/L		105	75 - 125	1	20
Iron	50	U	1000	1040		ug/L		104	75 - 125	0	20
Sodium	87		10.0	96.4		mg/L		94	75 - 125	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-117322/3

Matrix: Water

Analysis Batch: 117322

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			11/09/11 21:09	1

Lab Sample ID: LCS 660-117322/4

Matrix: Water

Analysis Batch: 117322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Chloride	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: 660-44519-3 MS

Matrix: Water

Analysis Batch: 117322

Client Sample ID: TH-19 WACS# 821

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	8.0	J3	10.0	19.3	J3	mg/L		112	90 - 110

Lab Sample ID: 660-44519-3 MSD

Matrix: Water

Analysis Batch: 117322

Client Sample ID: TH-19 WACS# 821

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	8.0	J3	10.0	19.4	J3	mg/L		113	90 - 110	0	30

Lab Sample ID: MB 660-117462/3

Matrix: Water

Analysis Batch: 117462

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			11/11/11 10:56	1

QC Sample Results

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

TestAmerica Job ID: 660-44490-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 660-117462/4

Matrix: Water

Analysis Batch: 117462

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result	Qualifier				
Chloride		10.0	9.00		mg/L	90	90 . 110	

Lab Sample ID: 660-44489-B-1 MS ^10

Matrix: Water

Analysis Batch: 117462

Analyte		Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
		Result	Qualifier	Added	Result	Qualifier				
Chloride		48	J3	100	138		mg/L	90	90 . 110	

Lab Sample ID: 660-44489-B-1 MSD ^10

Matrix: Water

Analysis Batch: 117462

Analyte		Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
		Result	Qualifier	Added	Result	Qualifier						
Chloride		48	J3	100	137	J3	mg/L	89	90 . 110	1	30	

Lab Sample ID: 660-44503-B-1 MS

Matrix: Water

Analysis Batch: 117462

Analyte		Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
		Result	Qualifier	Added	Result	Qualifier						
Chloride		15	J3	10.0	24.0	J3	mg/L	86	90 . 110			

Lab Sample ID: 660-44503-B-1 MSD

Matrix: Water

Analysis Batch: 117462

Analyte		Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
		Result	Qualifier	Added	Result	Qualifier						
Chloride		15	J3	10.0	24.5		mg/L	91	90 . 110	2	30	

Lab Sample ID: MB 660-117523/10

Matrix: Water

Analysis Batch: 117523

Analyte		MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Result	Qualifier							
Chloride		0.20	U	0.50	0.20	mg/L	91	90 . 110	11/14/11 12:53	1

Lab Sample ID: LCS 660-117523/11

Matrix: Water

Analysis Batch: 117523

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

Lab Sample ID: 660-44562-D-11 MS

Matrix: Water

Analysis Batch: 117523

Analyte		Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
		Result	Qualifier	Added	Result	Qualifier				
Chloride		3.4	J3	10.0	14.2		mg/L	109	90 . 110	

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QC Sample Results

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

TestAmerica Job ID: 660-44490-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-44562-D-11 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117523

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	3.4	J3	10.0	14.6	J3	mg/L	112	90 - 110	2	30	

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-117195/11

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117195

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	0.010	U	0.020	0.010	mg/L			11/07/11 15:11	1

Lab Sample ID: LCS 660-117195/12

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117195

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added						
Ammonia as N	0.500	0.498		mg/L	100	90 - 110	

Lab Sample ID: 660-44489-C-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117195

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	2.9		1.00	3.81		mg/L	92	90 - 110	

Lab Sample ID: 660-44489-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117195

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	
	Result	Qualifier	Added	Result	Qualifier					
Ammonia as N	2.9		1.00	3.86		mg/L	97	90 - 110	1	30

Lab Sample ID: MB 660-117196/3

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117196

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	0.010	U	0.020	0.010	mg/L			11/07/11 16:01	1

Lab Sample ID: LCS 660-117196/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117196

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added						
Ammonia as N	0.500	0.498		mg/L	100	90 - 110	

QC Sample Results

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

TestAmerica Job ID: 660-44490-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-44490-1 MS

Client Sample ID: TH-58 WACS# 1571

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117196

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.73	J3	1.00	1.59	J3	mg/L	86	90 - 110	

Lab Sample ID: 660-44490-1 MSD

Client Sample ID: TH-58 WACS# 1571

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117196

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	0.73	J3	1.00	1.58	J3	mg/L	85	90 - 110	1

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

Lab Sample ID: MB 660-117122/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117122

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/04/11 12:33	1

Lab Sample ID: LCS 660-117122/2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117122

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Total Dissolved Solids	10000	9960		mg/L		100	80 - 120

Lab Sample ID: 660-44490-6 DU

Client Sample ID: TH-57 WACS# 1570

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117122

Analyte	Sample	Sample	DU	DU	Unit	D	Prepared	Analyzed	RPD	Limit
	Result	Qualifier	Result	Qualifier						
Total Dissolved Solids	130		134		mg/L				5	20

Lab Sample ID: MB 660-117324/1

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117324

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/10/11 09:39	1

Lab Sample ID: LCS 660-117324/2

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117324

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

QC Sample Results

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

TestAmerica Job ID: 660-44490-1

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

Lab Sample ID: 660-44519-1 DU

Client Sample ID: SUP 1 WACS# 27756

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 117324

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	170		176		mg/L		2	20

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QC Association Summary

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

TestAmerica Job ID: 660-44490-1

Metals

Prep Batch: 117163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44490-1	TH-58 WACS# 1571	Total Recoverable	Water	3005A	
660-44490-2	TH-73 WACS#27754	Total Recoverable	Water	3005A	
660-44490-3	TH-40 WACS# 822	Total Recoverable	Water	3005A	
660-44490-4	Duplicate	Total Recoverable	Water	3005A	
660-44490-5	TH-30 WACS# 1065	Total Recoverable	Water	3005A	
660-44490-6	TH-57 WACS# 1570	Total Recoverable	Water	3005A	
660-44490-7	Blank, Equipment	Total Recoverable	Water	3005A	
660-44514-A-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-44514-A-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-44519-1	SUP 1 WACS# 27756	Total Recoverable	Water	3005A	
LCS 660-117163/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-117163/1-A	Method Blank	Total Recoverable	Water	3005A	

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Analysis Batch: 117218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44490-1	TH-58 WACS# 1571	Total Recoverable	Water	6010B	117163
660-44490-2	TH-73 WACS#27754	Total Recoverable	Water	6010B	117163
660-44490-3	TH-40 WACS# 822	Total Recoverable	Water	6010B	117163
660-44490-4	Duplicate	Total Recoverable	Water	6010B	117163
660-44490-5	TH-30 WACS# 1065	Total Recoverable	Water	6010B	117163
660-44490-6	TH-57 WACS# 1570	Total Recoverable	Water	6010B	117163
660-44490-7	Blank, Equipment	Total Recoverable	Water	6010B	117163
660-44514-A-2-B MS	Matrix Spike	Total Recoverable	Water	6010B	117163
660-44514-A-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	117163
660-44519-1	SUP 1 WACS# 27756	Total Recoverable	Water	6010B	117163
LCS 660-117163/2-A	Lab Control Sample	Total Recoverable	Water	6010B	117163
MB 660-117163/1-A	Method Blank	Total Recoverable	Water	6010B	117163

Prep Batch: 117259

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-44519-2	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
660-44519-3	TH-19 WACS# 821	Total Recoverable	Water	3005A	
660-44519-4	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-44519-5	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-44519-6	SUP 2 WASC# 27755	Total Recoverable	Water	3005A	
660-44548-E-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-44548-E-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 660-117259/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-117259/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 117343

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-44519-2	TH-28A WACS# 19862	Total Recoverable	Water	6010B	117259
660-44519-3	TH-19 WACS# 821	Total Recoverable	Water	6010B	117259
660-44519-4	TH-72 WACS# 27753	Total Recoverable	Water	6010B	117259
660-44519-5	TH-42 WACS# 823	Total Recoverable	Water	6010B	117259
660-44519-6	SUP 2 WASC# 27755	Total Recoverable	Water	6010B	117259
660-44548-E-5-B MS	Matrix Spike	Total Recoverable	Water	6010B	117259
660-44548-E-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	117259
LCS 660-117259/2-A	Lab Control Sample	Total Recoverable	Water	6010B	117259
MB 660-117259/1-A	Method Blank	Total Recoverable	Water	6010B	117259

QC Association Summary

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

TestAmerica Job ID: 660-44490-1

General Chemistry

Analysis Batch: 117122

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-44490-1	TH-58 WACS# 1571	Total/NA	Water	SM 2540C	
660-44490-2	TH-73 WACS#27754	Total/NA	Water	SM 2540C	
660-44490-3	TH-40 WACS# 822	Total/NA	Water	SM 2540C	
660-44490-4	Duplicate	Total/NA	Water	SM 2540C	
660-44490-5	TH-30 WACS# 1065	Total/NA	Water	SM 2540C	
660-44490-6	TH-57 WACS# 1570	Total/NA	Water	SM 2540C	
660-44490-6 DU	TH-57 WACS# 1570	Total/NA	Water	SM 2540C	
660-44490-7	Blank, Equipment	Total/NA	Water	SM 2540C	
LCS 660-117122/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-117122/1	Method Blank	Total/NA	Water	SM 2540C	

8

Analysis Batch: 117195

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-44489-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
660-44489-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-44519-1	SUP 1 WACS# 27756	Total/NA	Water	350.1	
660-44519-2	TH-28A WACS# 19862	Total/NA	Water	350.1	
660-44519-3	TH-19 WACS# 821	Total/NA	Water	350.1	
660-44519-4	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-44519-5	TH-42 WACS# 823	Total/NA	Water	350.1	
660-44519-6	SUP 2 WASC# 27755	Total/NA	Water	350.1	
LCS 660-117195/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-117195/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 117196

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-44490-1	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-44490-1 MS	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-44490-1 MSD	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-44490-2	TH-73 WACS#27754	Total/NA	Water	350.1	
660-44490-3	TH-40 WACS# 822	Total/NA	Water	350.1	
660-44490-4	Duplicate	Total/NA	Water	350.1	
660-44490-5	TH-30 WACS# 1065	Total/NA	Water	350.1	
660-44490-6	TH-57 WACS# 1570	Total/NA	Water	350.1	
660-44490-7	Blank, Equipment	Total/NA	Water	350.1	
LCS 660-117196/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-117196/3	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 117322

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-44490-3	TH-40 WACS# 822	Total/NA	Water	300.0	
660-44519-1	SUP 1 WACS# 27756	Total/NA	Water	300.0	
660-44519-2	TH-28A WACS# 19862	Total/NA	Water	300.0	
660-44519-3	TH-19 WACS# 821	Total/NA	Water	300.0	
660-44519-3 MS	TH-19 WACS# 821	Total/NA	Water	300.0	
660-44519-3 MSD	TH-19 WACS# 821	Total/NA	Water	300.0	
660-44519-4	TH-72 WACS# 27753	Total/NA	Water	300.0	
660-44519-5	TH-42 WACS# 823	Total/NA	Water	300.0	
660-44519-6	SUP 2 WASC# 27755	Total/NA	Water	300.0	
LCS 660-117322/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-117322/3	Method Blank	Total/NA	Water	300.0	

QC Association Summary

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

TestAmerica Job ID: 660-44490-1

General Chemistry (Continued)

Analysis Batch: 117324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44519-1	SUP 1 WACS# 27756	Total/NA	Water	SM 2540C	
660-44519-1 DU	SUP 1 WACS# 27756	Total/NA	Water	SM 2540C	
660-44519-2	TH-28A WACS# 19862	Total/NA	Water	SM 2540C	
660-44519-3	TH-19 WACS# 821	Total/NA	Water	SM 2540C	
660-44519-4	TH-72 WACS# 27753	Total/NA	Water	SM 2540C	
660-44519-5	TH-42 WACS# 823	Total/NA	Water	SM 2540C	
660-44519-6	SUP 2 WASC# 27755	Total/NA	Water	SM 2540C	
LCS 660-117324/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-117324/1	Method Blank	Total/NA	Water	SM 2540C	8

Analysis Batch: 117462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44489-B-1 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-44489-B-1 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
660-44490-1	TH-58 WACS# 1571	Total/NA	Water	300.0	
660-44490-2	TH-73 WACS#27754	Total/NA	Water	300.0	
660-44490-4	Duplicate	Total/NA	Water	300.0	
660-44490-5	TH-30 WACS# 1065	Total/NA	Water	300.0	
660-44490-6	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-44503-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
660-44503-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-117462/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-117462/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 117523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44490-7	Blank, Equipment	Total/NA	Water	300.0	
660-44562-D-11 MS	Matrix Spike	Total/NA	Water	300.0	
660-44562-D-11 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-117523/11	Lab Control Sample	Total/NA	Water	300.0	
MB 660-117523/10	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 117213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44490-1	TH-58 WACS# 1571	Total/NA	Water	Field Sampling	
660-44490-2	TH-73 WACS#27754	Total/NA	Water	Field Sampling	
660-44490-3	TH-40 WACS# 822	Total/NA	Water	Field Sampling	
660-44490-5	TH-30 WACS# 1065	Total/NA	Water	Field Sampling	
660-44490-6	TH-57 WACS# 1570	Total/NA	Water	Field Sampling	
660-44519-1	SUP 1 WACS# 27756	Total/NA	Water	Field Sampling	
660-44519-2	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	
660-44519-3	TH-19 WACS# 821	Total/NA	Water	Field Sampling	
660-44519-4	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-44519-5	TH-42 WACS# 823	Total/NA	Water	Field Sampling	
660-44519-6	SUP 2 WASC# 27755	Total/NA	Water	Field Sampling	

Lab Chronicle

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-58 WACS# 1571

Lab Sample ID: 660-44490-1

Date Collected: 11/03/11 11:52

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch	Batch	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prop Type	Type	Method						
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 09:53	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:39	TO	TAL TAM
Total/NA	Analysis	350.1		1	117196	11/07/11 16:04	TO	TAL TAM
Total/NA	Analysis	300.0		20	117462	11/11/11 16:25	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 11:52		TAL TAM

9

Client Sample ID: TH-73 WACS#27754

Lab Sample ID: 660-44490-2

Date Collected: 11/03/11 12:15

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch	Batch	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prop Type	Type	Method						
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 09:56	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:40	TO	TAL TAM
Total/NA	Analysis	350.1		2	117196	11/07/11 16:16	TO	TAL TAM
Total/NA	Analysis	300.0		10	117462	11/11/11 16:42	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 12:15		TAL TAM

Client Sample ID: TH-40 WACS# 822

Lab Sample ID: 660-44490-3

Date Collected: 11/03/11 09:48

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch	Batch	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prop Type	Type	Method						
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 10:00	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:40	TO	TAL TAM
Total/NA	Analysis	350.1		1	117196	11/07/11 16:09	TO	TAL TAM
Total/NA	Analysis	300.0		1	117322	11/09/11 23:54	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 09:48		TAL TAM

Client Sample ID: Duplicate

Lab Sample ID: 660-44490-4

Date Collected: 11/03/11 00:00

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch	Batch	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prop Type	Type	Method						
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 10:03	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:41	TO	TAL TAM
Total/NA	Analysis	350.1		1	117196	11/07/11 16:10	TO	TAL TAM
Total/NA	Analysis	300.0		5	117462	11/11/11 16:58	TS	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-30 WACS# 1065

Lab Sample ID: 660-44490-5

Date Collected: 11/03/11 11:30

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 10:07	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:41	TO	TAL TAM
Total/NA	Analysis	350.1		1	117196	11/07/11 16:11	TO	TAL TAM
Total/NA	Analysis	300.0		5	117462	11/11/11 17:15	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 11:30		TAL TAM

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Client Sample ID: TH-57 WACS# 1570

Lab Sample ID: 660-44490-6

Date Collected: 11/03/11 10:06

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 10:10	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:42	TO	TAL TAM
Total/NA	Analysis	350.1		1	117196	11/07/11 16:12	TO	TAL TAM
Total/NA	Analysis	300.0		1	117462	11/11/11 17:31	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 10:06		TAL TAM

Client Sample ID: Blank, Equipment

Lab Sample ID: 660-44490-7

Date Collected: 11/03/11 09:30

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 10:13	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:43	TO	TAL TAM
Total/NA	Analysis	350.1		1	117196	11/07/11 16:13	TO	TAL TAM
Total/NA	Analysis	300.0		1	117523	11/14/11 14:32	TS	TAL TAM

Client Sample ID: SUP 1 WACS# 27756

Lab Sample ID: 660-44519-1

Date Collected: 11/04/11 12:42

Matrix: Water

Date Received: 11/04/11 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			117163	11/07/11 09:17	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117218	11/08/11 10:27	SR	TAL TAM
Total/NA	Analysis	350.1		1	117195	11/07/11 15:38	TO	TAL TAM
Total/NA	Analysis	300.0		1	117322	11/09/11 21:42	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	117324	11/10/11 09:40	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/04/11 12:42		TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: TH-28A WACS# 19862

Lab Sample ID: 660-44519-2

Date Collected: 11/04/11 11:39

Matrix: Water

Date Received: 11/04/11 14:20

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	
Total Recoverable	Prep	3005A			117259	11/09/11 08:51	SR
Total Recoverable	Analysis	6010B		1	117343	11/10/11 09:50	SR
Total/NA	Analysis	350.1		1	117195	11/07/11 15:39	TO
Total/NA	Analysis	300.0		1	117322	11/09/11 21:59	TS
Total/NA	Analysis	SM 2540C		1	117324	11/10/11 09:42	TO
Total/NA	Analysis	Field Sampling		1	117213	11/04/11 11:39	TAL TAM

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Client Sample ID: TH-19 WACS# 821

Lab Sample ID: 660-44519-3

Date Collected: 11/04/11 09:48

Matrix: Water

Date Received: 11/04/11 14:20

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	
Total Recoverable	Prep	3005A			117259	11/09/11 08:51	SR
Total Recoverable	Analysis	6010B		1	117343	11/10/11 09:54	SR
Total/NA	Analysis	350.1		1	117195	11/07/11 15:40	TO
Total/NA	Analysis	300.0		1	117322	11/09/11 22:15	TS
Total/NA	Analysis	SM 2540C		1	117324	11/10/11 09:42	TO
Total/NA	Analysis	Field Sampling		1	117213	11/04/11 09:48	TAL TAM

Client Sample ID: TH-72 WACS# 27753

Lab Sample ID: 660-44519-4

Date Collected: 11/04/11 11:14

Matrix: Water

Date Received: 11/04/11 14:20

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	
Total Recoverable	Prep	3005A			117259	11/09/11 08:51	SR
Total Recoverable	Analysis	6010B		1	117343	11/10/11 10:04	SR
Total/NA	Analysis	350.1		1	117195	11/07/11 15:41	TO
Total/NA	Analysis	300.0		1	117322	11/09/11 22:32	TS
Total/NA	Analysis	SM 2540C		1	117324	11/10/11 09:43	TO
Total/NA	Analysis	Field Sampling		1	117213	11/04/11 11:14	TAL TAM

Client Sample ID: TH-42 WACS# 823

Lab Sample ID: 660-44519-5

Date Collected: 11/04/11 10:34

Matrix: Water

Date Received: 11/04/11 14:20

Prep Type	Batch	Batch	Dilution	Batch	Prepared	Analyst	Lab
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	
Total Recoverable	Prep	3005A			117259	11/09/11 08:51	SR
Total Recoverable	Analysis	6010B		1	117343	11/10/11 10:07	SR
Total/NA	Analysis	350.1		1	117195	11/07/11 15:43	TO
Total/NA	Analysis	300.0		1	117322	11/09/11 22:48	TS
Total/NA	Analysis	SM 2540C		1	117324	11/10/11 09:43	TO
Total/NA	Analysis	Field Sampling		1	117213	11/04/11 10:34	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 660-44490-1

Client Sample ID: SUP 2 WASC# 27755

Lab Sample ID: 660-44519-6

Date Collected: 11/04/11 12:15

Matrix: Water

Date Received: 11/04/11 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			117259	11/09/11 08:51	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	117343	11/10/11 10:10	SR	TAL TAM
Total/NA	Analysis	350.1		1	117195	11/07/11 15:44	TO	TAL TAM
Total/NA	Analysis	300.0		1	117322	11/09/11 23:05	TS	TAL TAM
Total/NA	Analysis	SM 2540C		1	117324	11/10/11 09:44	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/04/11 12:15		TAL TAM

Laboratory References:

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

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Certification Summary

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

TestAmerica Job ID: 660-44490-1

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	USDA	.	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

TestAmerica Job ID: 660-44490-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 660-44490-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-44490-1	TH-58 WACS# 1571	Water	11/03/11 11:52	11/03/11 14:10
660-44490-2	TH-73 WACS#27754	Water	11/03/11 12:15	11/03/11 14:10
660-44490-3	TH-40 WACS# 822	Water	11/03/11 09:48	11/03/11 14:10
660-44490-4	Duplicate	Water	11/03/11 00:00	11/03/11 14:10
660-44490-5	TH-30 WACS# 1065	Water	11/03/11 11:30	11/03/11 14:10
660-44490-6	TH-57 WACS# 1570	Water	11/03/11 10:06	11/03/11 14:10
660-44490-7	Blank, Equipment	Water	11/03/11 09:30	11/03/11 14:10
660-44519-1	SUP 1 WACS# 27756	Water	11/04/11 12:42	11/04/11 14:20
660-44519-2	TH-28A WACS# 19862	Water	11/04/11 11:39	11/04/11 14:20
660-44519-3	TH-19 WACS# 821	Water	11/04/11 09:48	11/04/11 14:20
660-44519-4	TH-72 WACS# 27753	Water	11/04/11 11:14	11/04/11 14:20
660-44519-5	TH-42 WACS# 823	Water	11/04/11 10:34	11/04/11 14:20
660-44519-6	SUP 2 WASC# 27755	Water	11/04/11 12:15	11/04/11 14:20

660-444493

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: Ami Clayton REP. OF SOLID WASTE DEPT. 10.27.11 2:00LOCATION: TH-58 WACS# 1571 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon J.Clayton

WELL DIAMETER: 2.0 INCH: DATE | TIME
 TOTAL DEPTH OF WELL: 32.92 Ft. PURGE STARTED: 10.3.11 11:44
 DEPTH TO WATER: 27.88 Ft. PURGE RATE: 0.20 GPM.
 LENGTH OF WATER COL: 5.04 Ft. DATE | TIME
 VOLUME TO PURGE: 0.81 Gal. PURGE ENDED: 10.3.11 11:52
 ACT. VOL. PURGED: 2.0 GAL.
 Draw Down: 28.21

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB	=
AG 30	11:48	24.71	1581	5.90	0.91	8.99	
DB 30	11:50	24.73	1580	5.88	0.69	8.71	
AG 30	11:52	24.72	1574	5.84	0.87	8.34	

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SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1.	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL NO. OF SAMPLES COLLECTED:COLLECTED
DATE | TIME
10.3.11ANALYSIS 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: Ami Clayton REP. OF SOLID WASTE DEPT. 10.3.11 2:10
 ACCEPTED BY: Carol McMullin REP. OF CONTRACT LAB. 10.3.11 2:10

COMMENT'S: WO # 00514.7°C CU07

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: Don Clayton REP. OF SOLID WASTE DEPT. 10.27.11 2:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon J.Clark

WELL DIAMETER: 2 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 43.40 Ft.

PURGE STARTED: 11.3.11 12:03

DEPTH TO WATER: 31.33 Ft.

PURGE RATE: 0.25 GPM.

LENGTH OF WATER COL: 12.07 Ft.

DATE | TIME

VOLUME TO PURGE: 1.90 Gal.

PURGE ENDED: 11.3.11 12:15

ACT. VOL. PURGED: 3.0 GAL.

Draw Down: 33.48

FIELD PARAMETERS:

BY.	TIME	TEMP	COND	PH	DO	TURB
AB JC	12:11	25.56	1293	5.24	0.35	8.19
AB JC	12:13	25.55	1281	5.24	0.38	8.17
AB JC	12:15	25.55	1273	5.21	0.30	8.14

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
1	40 ml. VIAL		40 ml. VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED DATE | TIME
11.3.11 12:15

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: Don Clayton REP. OF SOLID WASTE DEPT. 11.3.11 2:10

ACCEPTED BY: Don McManamy REP. OF CONTRACT LAB. 11.3.11 2:10

COMMENT'S: WQ # 0051

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: Don Clagett REP. OF SOLID WASTE DEPT. 10.27.11 | 2:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION A. Balloon J. Clagett

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 165.90 Ft.

PURGE STARTED: 10.3.11 | 9:33

DEPTH TO WATER: 95.22 Ft.

PURGE RATE: 1.00 GPM.

LENGTH OF WATER COL: 70.48 Ft.

DATE | TIME

VOLUME TO PURGE: 11.3 Gal.

PURGE ENDED: 10.3.11 | 9:48

ACT. VOL. PURGED: 1.5 GAL.

Draw Down: 95.10

13

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:44	23.40	242	7.45	0.45	0.31
AB JC	9:44	23.41	251	7.47	0.43	0.29
AB JC	9:48	23.42	255	7.47	0.41	0.31

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10.3.11 | 9:48

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: Don Clagett REP. OF SOLID WASTE DEPT. 10.3.11 | 2:10

ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 10.3.11 | 2:10

COMMENT'S: W0 # 005

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: Don Cleary REP. OF SOLID WASTE DEPT. 10-27-11 | 2:00

LOCATION: DUPLICATE SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION : A. Balloon L. Cleary

FIELD PARAMETERS: N/A

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

13

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
 DATE | TIME
11.3.11 | 2:00

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:

DATE | TIME

RELINQUISHED BY: Don Cleary REP. OF SOLID WASTE DEPT. 11.3.11 | 2:10
 ACCEPTED BY: Carol McNulty REP. OF CONTRACT LAB. 11.3.11 | 2:10

COMMENT'S: W0 #0051

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: A. Clayton REP. OF SOLID WASTE DEPT. 10.27.11 2:00

LOCATION: TH-30 WACS# 1065 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon J.clayton

WELL DIAMETER: <u>2.00</u>	INCH:	<u>DATE TIME</u>
TOTAL DEPTH OF WELL: <u>46.19</u>	Ft.	<u>10.3.11 11:11</u>
DEPTH TO WATER: <u>23.90</u>	Ft.	PURGE RATE: <u>6.25 GPM.</u>
LENGTH OF WATER COL: <u>22.59</u>	Ft.	<u>DATE TIME</u>
VOLUME TO PURGE: <u>3.61</u>	Gal.	PURGE ENDED: <u>10.3.11 11:30</u>
		ACT. VOL. PURGED: <u>4.75 GAL.</u>
		Draw Down: <u>23.99</u>

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB	10.27.11 11:24	23.72	244	4.41	0.17	1.44
AB	10.27.11 11:28	23.72	244	4.40	0.17	2.16
AB	10.27.11 11:30	23.72	244	4.40	0.16	1.74

13

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED DATE | TIME
10.3.11 11:30

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: A. Clayton REP. OF SOLID WASTE DEPT. 10.3.11 2:10
 ACCEPTED BY: Carol McMillen REP. OF CONTRACT LAB. 10.3.11 2:10

COMMENT'S: W0# 0051

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

PRECLEANED SAMPLE CONTAINERS:

DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ |

ACCEPTED BY: Dan Clayton REP. OF SOLID WASTE DEPT. 10.22.11 2:00

LOCATION: TH-57 WACS# 1570 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION A. Balloon J. Clayton

WELL DIAMETER: 2.0 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 26.83 Ft.

11.3.11 9:57

DEPTH TO WATER: 19.25 Ft.

0.25 GPM.

LENGTH OF WATER COL: 7.58 Ft.

DATE | TIME

VOLUME TO PURGE: 1.21 Gal.

11.3.11 10:04

PURGE STARTED:

PURGE RATE:

PURGE ENDED:

ACT. VOL. PURGED:

Draw Down:

2.25 GAL.

20.27

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:02	26.70	201	5.24	0.28	0.90
AB JC	10:04	26.71	211	5.25	0.27	1.03
AB JC	10:04	26.72	218	5.24	0.25	0.44

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

11.3.11 10:04

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: Dan Clayton REP. OF SOLID WASTE DEPT. 11.3.11 2:10

ACCEPTED BY: Cal McMurtry REP. OF CONTRACT LAB. 11.3.11 2:10

COMMENT'S: W0 #0051 H₂S odor

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: A. Cleary REP. OF SOLID WASTE DEPT. 10.22.11 2:00

LOCATION: BLANK, EQUIPMENT SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION ✓ A.Balloon ✓ J.Cleary

FIELD PARAMETERS: N/A

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL NO. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
10.3.11 | 9:30

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: A. Cleary DATE | TIME
 ACCEPTED BY: Craig Mowatt REP. OF SOLID WASTE DEPT. 10.3.11 | 2:10
 REP. OF CONTRACT LAB. 10.3.11 | 2:10

COMMENT'S: W0# 0051

660-44519

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: de Claitre REP. OF SOLID WASTE DEPT. 10.27.11 | 2:00

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

PERSONAL ENGAGED IN SAMPLE COLLECTION E.A.Balloon & J.Claitre

WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 11.4.11 TIME 12:23
 ACTUAL PURGE TIME: 19 MIN:

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>AB JC</u>	<u>12:38</u>	<u>24.37</u>	<u>339</u>	<u>7.46</u>	<u>0.05</u>	<u>0.0</u>
<u>AB JC</u>	<u>12:40</u>	<u>24.38</u>	<u>339</u>	<u>7.45</u>	<u>0.05</u>	<u>0.0</u>
<u>AB JC</u>	<u>12:42</u>	<u>24.381</u>	<u>339</u>	<u>7.46</u>	<u>0.05</u>	<u>0.0</u>

SAMPLE CONTAINERS

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

4 TOTAL No. OF SAMPLES COLLECTED:

COLLECTED
DATE | TIME
11.4.11 | 12:42

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: de Claitre REP. OF SOLID WASTE DEPT. 11.4.11 | 2:20
 ACCEPTED BY: Mal McMillan REP. OF CONTRACT LAB. 11.4.11 | 2:20

COMMENT'S: W0# 0051

2.72 CU-07

660-44519

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: D. Clegg REP. OF SOLID WASTE DEPT. 10.27.11 | 2:00LOCATION: TH-28A WACS# 19862 SAMPLE MATRIX: WATER OTHER MATRIX: _____PERSONAL ENGAGED IN SAMPLE COLLECTION A. Balloon J. Clegg WELL DIAMETER: 2.0 INCH:TOTAL DEPTH OF WELL: 34.30 Ft.

DATE | TIME

11.4.11 | 1:30DEPTH TO WATER: 28.25 Ft.

PURGE STARTED:

0.2 GPM.LENGTH OF WATER COL: 6.05 Ft.

PURGE RATE:

DATE | TIMEVOLUME TO PURGE: 0.97 Gal.

PURGE ENDED:

11.4.11 | 1:39

ACT. VOL. PURGED:

GAL.

Draw Down:

28.90FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
A.G.J.C.	11:35	24.22	230	5.38	0.94	6.74
A.G.J.C.	11:37	24.33	227	5.34	0.91	7.18
A.G.J.C.	11:39	24.37	225	5.30	0.80	7.40

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
1	40 ml. VIAL		40 ml. VIAL	
1	125 ml. PLASTIC		125 ml. PLASTIC	
	125 ml. GLASS		125 ml. GLASS	
1	250 ml. PLASTIC	22	250 ml. PLASTIC	
	250 ml. GLASS		250 ml. GLASS	
	500 ml. PLASTIC		500 ml. PLASTIC	
	500 ml. GLASS		500 ml. GLASS	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

+ TOTAL No. OF SAMPLES COLLECTED:

COLLECTED

DATE | TIME

11.4.11 | 11:39ANALYSIS 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: D. Clegg REP. OF SOLID WASTE DEPT. 11.4.11 | 2:20ACCEPTED BY: Chad McMillip REP. OF CONTRACT LAB. 11.4.11 | 2:20COMMENT'S: W0 # 0051

660-44519

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

PRECLEANED SAMPLE CONTAINERS:DATE | TIME

RELINQUISHED BY: _____ REP. OF CONTRACT LAB. _____ |

ACCEPTED BY: John Clayton REP. OF SOLID WASTE DEPT. 11.4.11 | 2:00LOCATION: TH-19 WACS# 821 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon J.Clark WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: <u>153.60</u>	Ft.	PURGE STARTED: <u>11.4.11 9:35</u>	DATE TIME
DEPTH TO WATER: <u>98.25</u>	Ft.	PURGE RATE: <u>1.00</u>	GPM.
LENGTH OF WATER COL: <u>55.35</u>	Ft.	DATE TIME	
VOLUME TO PURGE: <u>8.90</u>	Gal.	PURGE ENDED: <u>11.4.11 9:48</u>	
		ACT. VOL. PURGED: <u>13</u>	GAL.
		Draw Down: <u>98.43</u>	

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	9:44	23.34	392	7.33	0.66	1.32
AB JC	9:44	23.34	393	7.30	0.58	1.38
AB JC	9:48	23.35	393	7.28	0.59	1.38

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:
COLLECTED
DATE | TIME
11.4.11 | 9:48
ANALYSIS REQUESTED:AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES:

 RELINQUISHED BY: John Clayton DATE | TIME
 ACCEPTED BY: Carolyn McMurtry REP. OF SOLID WASTE DEPT. 11.4.11 | 2:20
 REP. OF CONTRACT LAB. 11.4.11 | 2:20
COMMENT'S: W0 # 0051

660-44519

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: L. Clapp REP. OF SOLID WASTE DEPT. 10.27.11 2:00

LOCATION: TH-72 WACS# 27753 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION R.A.Balloon & L.Clapp

WELL DIAMETER: <u>2</u> INCH:	<u>DATE TIME</u>
TOTAL DEPTH OF WELL: <u>190.00</u> Ft.	PURGE STARTED: <u>11.4.11 10:50</u>
DEPTH TO WATER: <u>103.24</u> Ft.	PURGE RATE: <u>0.70 GPM.</u>
LENGTH OF WATER COL: <u>86.74</u> Ft.	<u>DATE TIME</u>
VOLUME TO PURGE: <u>13.88</u> Gal.	PURGE ENDED: <u>11.4.11 11:14</u>
	ACT. VOL. PURGED: <u>17.5 GAL.</u>
	Draw Down: <u>103.37</u>

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
A3	11:10	23.05	849	7.29	1.82	1.47
A3	11:12	23.04	549	7.28	1.80	1.48
AQ	11:14	23.04	550	7.28	1.80	1.51

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____ COLLECTED DATE | TIME
11.4.11 11:14

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:

RELINQUISHED BY: L. Clapp REP. OF SOLID WASTE DEPT. 11.4.11 2:20
 ACCEPTED BY: Anal M. M. M. REP. OF CONTRACT LAB. 11.4.11 2:20

COMMENT'S: Wet soil

660-44519

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 Clayton REP. OF SOLID WASTE DEPT. 11.4.11 12:00

LOCATION: TH-42 WACS# 823 SAMPLE MATRIX: WATER OTHER MATRIX: _____
 PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon J Clayton

WELL DIAMETER: 2.0 INCH:

TOTAL DEPTH OF WELL: 164.00 Ft.
 DEPTH TO WATER: 74.49 Ft.
 LENGTH OF WATER COL: 87.51 Ft.
 VOLUME TO PURGE: 17.32 Gal.

PURGE STARTED: 11.4.11 10:06
 PURGE RATE: 0.40 GPM.
 PURGE ENDED: 11.4.11 10:34
 ACT. VOL. PURGED: 16.8 GAL.
 Draw Down: 92.02

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB 18	10:30	23.44	495	7.20	0.28	22.2
AB 30	10:32	23.45	495	7.21	0.25	21.4
AB 38	10:34	23.44	495	7.21	0.23	20.4

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SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL NO. OF SAMPLES COLLECTED:

COLLECTED DATE | TIME
11.4.11 10:34

ANALYSIS REQUESTED:

AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic Dissolved Sodium

Dissolved Iron Dissolved Arsenic

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

ABOVE LISTED SAMPLES:

RELINQUISHED BY: As Clayton REP. OF SOLID WASTE DEPT. 11.4.11 2:23
 ACCEPTED BY: Carroll McMurtry REP. OF CONTRACT LAB. 11.4.11 2:20

COMMENT'S: WGT 0051

660-44519

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: Don Clapp REP. OF SOLID WASTE DEPT. 10.27.11 | 2:00LOCATION: SUP 2 WACS# 27755 SAMPLE MATRIX: WATER OTHER MATRIX: PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon J.Clapp WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE 11.4.11 TIME 11:56
ACTUAL PURGE TIME: 19 MIN:FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB 1e	12:11	24.54	348	7.42	0.07	0.0
AB 1c	12:13	24.58	347	7.42	0.07	0.0
AB 1e	12:15	24.62	347	7.44	0.07	0.0

13

SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:COLLECTED
DATE | TIME
11.4.11 | 2:15ANALYSIS REQUESTED:AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron ArsenicPRESERVED SAMPLES PH < 2.0 _____ SAMPLE STORAGE: COOLER & ICE TO 4.0 C

ABOVE LISTED SAMPLES:

DATE | TIMERELINQUISHED BY: Don Clapp REP. OF SOLID WASTE DEPT. 11.4.11 | 2:20
ACCEPTED BY: Don McCarthy REP. OF CONTRACT LAB. 11.4.11 | 2:20COMMENT'S: WOT# 0051

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-44490-1

Login Number: 44490

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	4.7 degrees 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	

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Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-44490-1

Login Number: 44519

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

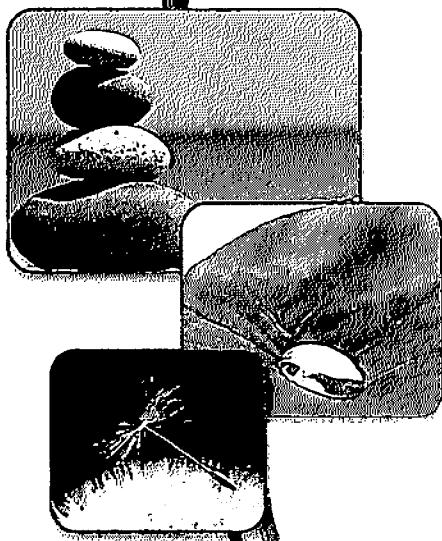
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7c CU07
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.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

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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: 660-44489-1

Client Project/Site: Southeast Landfill

For:

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

Attn: David Adams

Nancy Robertson

Authorized for release by:

11/17/2011 9:25:19 AM

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.

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Definitions/Glossary

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

TestAmerica Job ID: 660-44489-1

3

Qualifiers

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 660-44489-1

Job ID: 660-44489-1

Laboratory: TestAmerica Tampa

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Narrative

Job Narrative
660-44489-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method 6010B: The matrix spike (MS) recovery for batch 117094 was outside control limits for sodium. The parent sample was greater than 4 times the spike added. 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 duplicate (MSD) recovery for batch 117462 was outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 660-44489-1

Client Sample ID: TH-74

Lab Sample ID: 660-44489-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.56				SU	1		Field Sampling	Total/NA
Field Temperature	23.62				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.51				mg/L	1		Field Sampling	Total/NA
Specific Conductance	485				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.45				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	26000		200	50	ug/L	1		6010B	Total Recovera
Sodium	20		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	48 J3		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	2.9		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	280		10	10	mg/L	1		SM 2540C	Total/NA

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Client Sample ID: TH-75

Lab Sample ID: 660-44489-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	5.65				SU	1		Field Sampling	Total/NA
Field Temperature	23.63				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Specific Conductance	396				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.6				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5 I		10	4.0	ug/L	1		6010B	Total Recovera
Iron	11000		200	50	ug/L	1		6010B	Total Recovera
Sodium	14		0.50	0.31	mg/L	1		6010B	Total Recovera
Chloride	49		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	1.4		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample Results

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

TestAmerica Job ID: 660-44489-1

Client Sample ID: TH-74

Lab Sample ID: 660-44489-1

Date Collected: 11/03/11 10:29

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		11/04/11 06:50	11/04/11 14:52	1
Iron	26000		200	50	ug/L		11/04/11 06:50	11/04/11 14:52	1
Sodium	20		0.50	0.31	mg/L		11/04/11 06:50	11/04/11 14:52	1

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48	J3	5.0	2.0	mg/L			11/11/11 13:41	10
Ammonia as N	2.9		0.020	0.010	mg/L			11/07/11 15:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			11/04/11 12:38	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.56				SU			11/03/11 10:29	1
Field Temperature	23.62				Degrees C			11/03/11 10:29	1
Oxygen, Dissolved	0.51				mg/L			11/03/11 10:29	1
Specific Conductance	485				umhos/cm			11/03/11 10:29	1
Turbidity	5.45				NTU			11/03/11 10:29	1

Client Sample Results

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

TestAmerica Job ID: 660-44489-1

Client Sample ID: TH-75

Lab Sample ID: 660-44489-2

Date Collected: 11/03/11 10:55

Matrix: Water

Date Received: 11/03/11 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5	I	10	4.0	ug/L		11/04/11 06:50	11/04/11 14:55	1
Iron	11000		200	50	ug/L		11/04/11 06:50	11/04/11 14:55	1
Sodium	14		0.50	0.31	mg/L		11/04/11 06:50	11/04/11 14:55	1

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49		0.50	0.20	mg/L			11/09/11 18:57	1
Ammonia as N	1.4		0.020	0.010	mg/L			11/07/11 15:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			11/04/11 12:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.65				SU			11/03/11 10:55	1
Field Temperature	23.63				Degrees C			11/03/11 10:55	1
Oxygen, Dissolved	0.26				mg/L			11/03/11 10:55	1
Specific Conductance	396				umhos/cm			11/03/11 10:55	1
Turbidity	11.6				NTU			11/03/11 10:55	1

QC Sample Results

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

TestAmerica Job ID: 660-44489-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-117094/1-A

Matrix: Water

Analysis Batch: 117154

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 117094

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	4.0	U	10	4.0	ug/L		11/04/11 06:50	11/04/11 13:39	1
Iron	50	U	200	50	ug/L		11/04/11 06:50	11/04/11 13:39	1
Sodium	0.31	U	0.50	0.31	mg/L		11/04/11 06:50	11/04/11 13:39	1

Lab Sample ID: LCS 660-117094/2-A

Matrix: Water

Analysis Batch: 117154

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 117094

Analyte	Spike		LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier	Unit	D	%Rec.	Limits	
Arsenic	1000	1010		ug/L		101	75 - 125	
Iron	1000	1040		ug/L		104	75 - 125	
Sodium	10.0	10.2		mg/L		102	75 - 125	

Lab Sample ID: 660-44456-A-1-B MS

Matrix: Water

Analysis Batch: 117154

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Batch: 117094

Analyte	Sample		Spike	MS MS		Unit	D	%Rec.	Limits
	Result	Qualifier		Added	Result	Qualifier			
Arsenic	4.0	U	1000	1040		ug/L		104	75 - 125
Iron	50	U	1000	1010		ug/L		101	75 - 125
Sodium	130	J3	10.0	135	J3	mg/L		62	75 - 125

Lab Sample ID: 660-44456-A-1-C MSD

Matrix: Water

Analysis Batch: 117154

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total Recoverable

Prep Batch: 117094

Analyte	Sample		Spike	MSD MSD		Unit	D	%Rec.	RPD	Limit	
	Result	Qualifier		Added	Result	Qualifier					
Arsenic	4.0	U	1000	1050		ug/L		105	75 - 125	1	20
Iron	50	U	1000	1050		ug/L		105	75 - 125	4	20
Sodium	130	J3	10.0	139		mg/L		106	75 - 125	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 660-117319/3

Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 117319

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			11/09/11 12:44	1

Lab Sample ID: LCS 660-117319/4

Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 117319

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

QC Sample Results

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

TestAmerica Job ID: 660-44489-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 660-44558-F-1 MS ^10

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

Matrix: Water

Analysis Batch: 117319

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	%Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	98		100	207		mg/L	109	90 . 110	

Lab Sample ID: 660-44558-F-1 MSD ^10

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

Matrix: Water

Analysis Batch: 117319

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	%Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	98		100	191		mg/L	93	90 . 110	8	30	

Lab Sample ID: MB 660-117462/3

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

Matrix: Water

Analysis Batch: 117462

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	0.20	U	0.50	0.20	mg/L			11/11/11 10:56	1

Lab Sample ID: LCS 660-117462/4

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

Matrix: Water

Analysis Batch: 117462

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added						
Chloride	10.0	9.00		mg/L	90	90 . 110	

Lab Sample ID: 660-44489-1 MS

Client Sample ID: TH-74
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 117462

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	48	J3	100	138		mg/L	90	90 . 110	

Lab Sample ID: 660-44489-1 MSD

Client Sample ID: TH-74
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 117462

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Chloride	48	J3	100	137	J3	mg/L	89	90 . 110	1	30	

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 660-117195/11

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

Matrix: Water

Analysis Batch: 117195

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia as N	0.010	U	0.020	0.010	mg/L			11/07/11 15:11	1

QC Sample Results

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

TestAmerica Job ID: 660-44489-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 660-117195/12

Matrix: Water

Analysis Batch: 117195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS	LCS	Unit	D	%Rec.	%Rec.
	Added	Result	Result	Qualifier				
Ammonia as N	0.500	0.498			mg/L	100	100	90 - 110

Lab Sample ID: 660-44489-1 MS

Matrix: Water

Analysis Batch: 117195

Client Sample ID: TH-74

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Ammonia as N	2.9		1.00	3.81		mg/L	92	92	90 - 110

Lab Sample ID: 660-44489-1 MSD

Matrix: Water

Analysis Batch: 117195

Client Sample ID: TH-74

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Ammonia as N	2.9		1.00	3.86		mg/L	97	97	90 - 110	1	30

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

Lab Sample ID: MB 660-117122/1

Matrix: Water

Analysis Batch: 117122

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			11/04/11 12:33	1

Lab Sample ID: LCS 660-117122/2

Matrix: Water

Analysis Batch: 117122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Total Dissolved Solids	10000	9960		mg/L	100	100	80 - 120

Lab Sample ID: 660-44479-A-18 DU

Matrix: Water

Analysis Batch: 117122

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Dissolved Solids	200		196		mg/L		2	20

QC Association Summary

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

TestAmerica Job ID: 660-44489-1

Metals

Prep Batch: 117094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44456-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
660-44456-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-44489-1	TH-74	Total Recoverable	Water	3005A	
660-44489-2	TH-75	Total Recoverable	Water	3005A	
LCS 660-117094/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-117094/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 117154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44456-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	117094
660-44456-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	117094
660-44489-1	TH-74	Total Recoverable	Water	6010B	117094
660-44489-2	TH-75	Total Recoverable	Water	6010B	117094
LCS 660-117094/2-A	Lab Control Sample	Total Recoverable	Water	6010B	117094
MB 660-117094/1-A	Method Blank	Total Recoverable	Water	6010B	117094

General Chemistry

Analysis Batch: 117122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44479-A-18 DU	Duplicate	Total/NA	Water	SM 2540C	
660-44489-1	TH-74	Total/NA	Water	SM 2540C	
660-44489-2	TH-75	Total/NA	Water	SM 2540C	
LCS 660-117122/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-117122/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 117195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44489-1	TH-74	Total/NA	Water	350.1	
660-44489-1 MS	TH-74	Total/NA	Water	350.1	
660-44489-1 MSD	TH-74	Total/NA	Water	350.1	
660-44489-2	TH-75	Total/NA	Water	350.1	
LCS 660-117195/12	Lab Control Sample	Total/NA	Water	350.1	
MB 660-117195/11	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 117319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44489-2	TH-75	Total/NA	Water	300.0	
660-44558-F-1 MS ^10	Matrix Spike	Total/NA	Water	300.0	
660-44558-F-1 MSD ^10	Matrix Spike Duplicate	Total/NA	Water	300.0	
LCS 660-117319/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-117319/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 117462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44489-1	TH-74	Total/NA	Water	300.0	
660-44489-1 MS	TH-74	Total/NA	Water	300.0	
660-44489-1 MSD	TH-74	Total/NA	Water	300.0	
LCS 660-117462/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-117462/3	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

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

TestAmerica Job ID: 660-44489-1

Field Service / Mobile Lab

Analysis Batch: 117213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-44489-1	TH-74	Total/NA	Water	Field Sampling	
660-44489-2	TH-75	Total/NA	Water	Field Sampling	

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Lab Chronicle

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

TestAmerica Job ID: 660-44489-1

Client Sample ID: TH-74

Lab Sample ID: 660-44489-1

Date Collected: 11/03/11 10:29

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch	Batch	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prep Type	Type	Method						
Total Recoverable	Prep	3005A			117094	11/04/11 06:50	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	117154	11/04/11 14:52	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:38	TO	TAL TAM
Total/NA	Analysis	350.1		1	117195	11/07/11 15:30	TO	TAL TAM
Total/NA	Analysis	300.0		10	117462	11/11/11 13:41	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 10:29		TAL TAM

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Client Sample ID: TH-75

Lab Sample ID: 660-44489-2

Date Collected: 11/03/11 10:55

Matrix: Water

Date Received: 11/03/11 14:10

Prep Type	Batch	Batch	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Prep Type	Type	Method						
Total Recoverable	Prep	3005A			117094	11/04/11 06:50	GF	TAL TAM
Total Recoverable	Analysis	6010B		1	117154	11/04/11 14:55	SR	TAL TAM
Total/NA	Analysis	SM 2540C		1	117122	11/04/11 12:39	TO	TAL TAM
Total/NA	Analysis	350.1		1	117195	11/07/11 15:34	TO	TAL TAM
Total/NA	Analysis	300.0		1	117319	11/09/11 18:57	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	117213	11/03/11 10:55		TAL TAM

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 660-44489-1

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	USDA		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.

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Method Summary

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

TestAmerica Job ID: 660-44489-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 660-44489-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-44489-1	TH-74	Water	11/03/11 10:29	11/03/11 14:10
660-44489-2	TH-75	Water	11/03/11 10:55	11/03/11 14:10

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660-44489

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: Ani Clayton REP. OF SOLID WASTE DEPT. 10.27.11 2:00

LOCATION: TH-74 WACS# SAMPLE MATRIX: WATER OTHER MATRIX: _____
PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon C/Ly+

WELL DIAMETER: 2 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 17.00 Ft.

11.3.11 10:19

DEPTH TO WATER: 9.71 Ft.

0.20 GPM.

LENGTH OF WATER COL: 7.29 Ft.

DATE | TIME

VOLUME TO PURGE: 1.17 Gal.

PURGE ENDED: 11.3.11 10:29

ACT. VOL. PURGED: 2.0 GAL.

Draw Down: 10029

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
AB JC	10:25	23.40	482	5.52	0.49	5.61
AB JC	10:27	23.42	480	5.55	0.53	5.53
AB JC	10:29	23.42	485	5.54	0.51	5.45

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SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED

DATE | TIME

11.3.11 10:29

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: Ani Clayton REP. OF SOLID WASTE DEPT. 11.3.11 2:10

ACCEPTED BY: Candice McManamy REP. OF CONTRACT LAB. 11.3.11 2:10

COMMENT'S: W0 # 0051

4.7°C CU07

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: Don Clayton REP. OF SOLID WASTE DEPT. 10.27.11 | 2:00

LOCATION: TH-75 WACS#

SAMPLE MATRIX: WATER OTHER MATRIX: _____

PERSONAL ENGAGED IN SAMPLE COLLECTION A.Balloon D.J.Clayton

WELL DIAMETER: 2 INCH:

DATE | TIME

TOTAL DEPTH OF WELL: 17.00 Ft.

PURGE STARTED: 11.3.11 | 10:43

DEPTH TO WATER: 7.70 Ft.

PURGE RATE: 0.20 GPM.

LENGTH OF WATER COL: 9.3 Ft.

DATE | TIME

VOLUME TO PURGE: 1.47 Gal.

PURGE ENDED: 11.3.11 | 10:55

ACT. VOL. PURGED: 2.40 GAL.

Draw Down: 8.01

FIELD PARAMETERS:

BY	TIME	TEMP	COND	PH	DO	TURB
<u>A B J C</u>	<u>10:51</u>	<u>23.60</u>	<u>393</u>	<u>5.67</u>	<u>0.32</u>	<u>12.3</u>
<u>A B J C</u>	<u>10:53</u>	<u>23.61</u>	<u>397</u>	<u>5.65</u>	<u>0.28</u>	<u>12.0</u>
<u>A B J C</u>	<u>10:55</u>	<u>23.63</u>	<u>394</u>	<u>5.65</u>	<u>0.25</u>	<u>11.4</u>

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SAMPLE CONTAINERS

QTY	CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
1	40 ml VIAL		40 ml VIAL	
1	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	
1	LITER PLASTIC		LITER PLASTIC	
	LITER GLASS		LITER GLASS	
	BACTERIAL		BACTERIAL	

4 TOTAL No. OF SAMPLES COLLECTED:

Colors and Sheens _____

COLLECTED
DATE | TIME
11.3.11 | 10:55

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: Don Clayton REP. OF SOLID WASTE DEPT. 11.3.11 | 2:10
 ACCEPTED BY: Carl McNamee REP. OF CONTRACT LAB. 11.3.11 | 2:10

COMMENT'S: W0 # 0051

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-44489-1

Login Number: 44489

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	4.7 degrees 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	

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