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November 10, 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. 14

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 October 5-7, 2011, and the samples collected were analyzed by our contracted laboratory, Test America, Inc.

Representative samples of groundwater were collected from nine (9) 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.

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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.

<u>pH</u>

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 in value from 4.63 to 5.72 pH units. The pH values within the surficial aquifer at the SCLF have historically been 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 11.5 NTU.

Conductivity

The conductivity values are relatively low and have remained consistent with historical values associated with the SCLF, except for TH-58. This well has exhibited elevated conductivity values over the past year, and it appears that an upward trend began in November of 2010. However, the values have shown significant upward and downward and swings over the past year. The conductivity value observed in October was 1416 uhmos/cm, which represents an increase from the September sampling event. The conductivity values in this well will continue to be evaluated.

Total Dissolved Solids (TDS)

Surficial aquifer groundwater monitoring well, TH-58, exhibited a TDS concentration of 1,100 mg/l, which is lower then the previous month's result of 1,200 mg/l. However, this value continues to exceed the SDWS of 500 mg/l. Over the period of record, TDS values began to trend upward during the June sampling event, but the decrease in value over the last two months may be indicative of water quality changes associated with the fluids introduced into the surficial aquifer during the sinkhole grouting activities.

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Chloride

Surficial aquifer groundwater monitoring well, TH-58, exhibited chloride at a concentration of 400 mg/l, which is lower then the previous month's result of 570 mg/l. However, this value continues to exceed the SDWS of 250 mg/l. Over the period of record, chloride values began to trend upward during the June sampling event, but the decrease in values over the last two months may be indicative of changes in that trend. The chloride values in all the other wells are well below the SDWS.

Arsenic

The arsenic observed in TH-58 is 0.028 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, and the concentration has remained consistent while other parameters have exhibited changes. 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. 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.

<u>Iron</u>

Iron concentrations in four (4) surficial aquifer wells and one 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 9.1 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 0.37 mg/l may be naturally occurring in the weathered limestone and clay strata.

Conclusions

Water quality observed in the groundwater samples collected as part of this sampling event remains consistent with the historical data set for the site, with the exception of the changes observed in the surficial aquifer monitoring well TH-58. The water quality in this well, and specifically the values for conductivity, total dissolved solids and chloride, indicate impacts from the sinkhole and/or the grouting activities. The County will continue to look for changes in water quality at all the wells sampled, but a focused evaluation of water quality in TH-58 will continue. 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.

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Recommendations

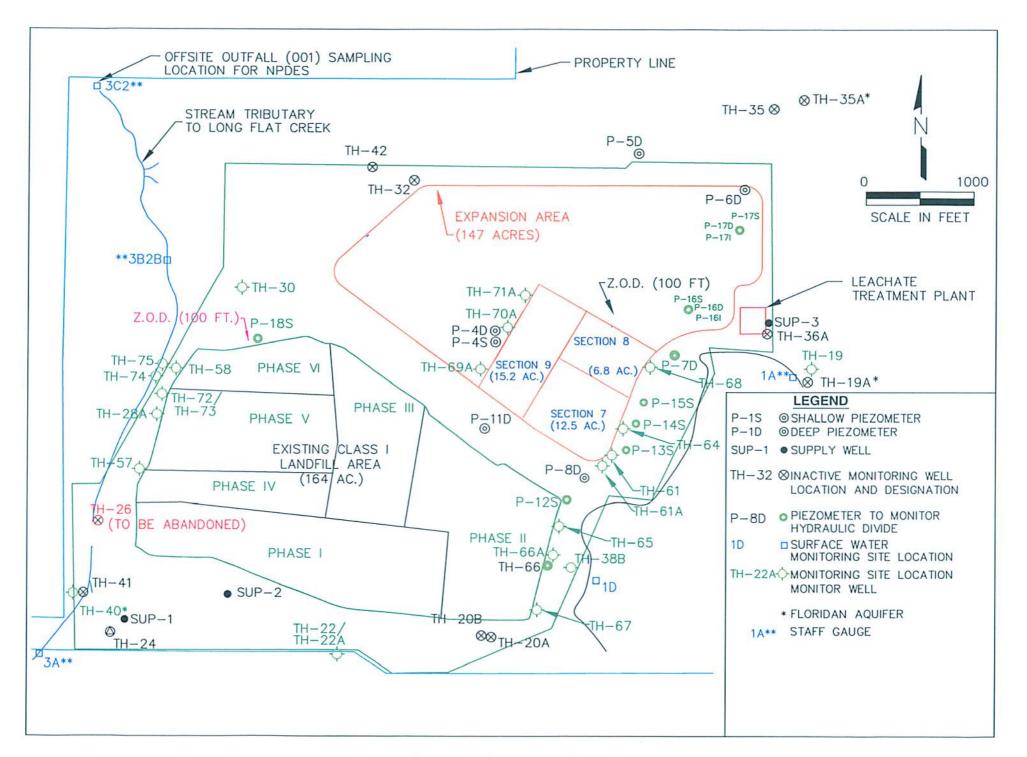
The County recommends continuation of the IAMP sampling program on the approved monthly schedule, and associated evaluation of water quality in the nine monitoring wells and two on-site supply wells. The County will continue to provide the IAMP reports within the specified time frames, and evaluate all 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,

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

xc: Paul Vanderploog, Director, Public Utilities Department
Patricia Berry, Public Utilities Department
Pamela Greene, Public Utilities Department
Larry Ruiz, Public Utilities Department
Beth Schinella, Public Utilities Department
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Richard Tedder, FDEP Tallahassee
Susan Pelz, FDEP Southwest District
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Ernest Ely, WM
Brian Miller, DOH
Rich Siemering, HDR
Joe O'Neill, Civil Design Services



Hillsborough County Southeast Landfill Laboratory Analytical Results from Groundwater Monitoring and On-Site Supply Wells October 5-7, 2011

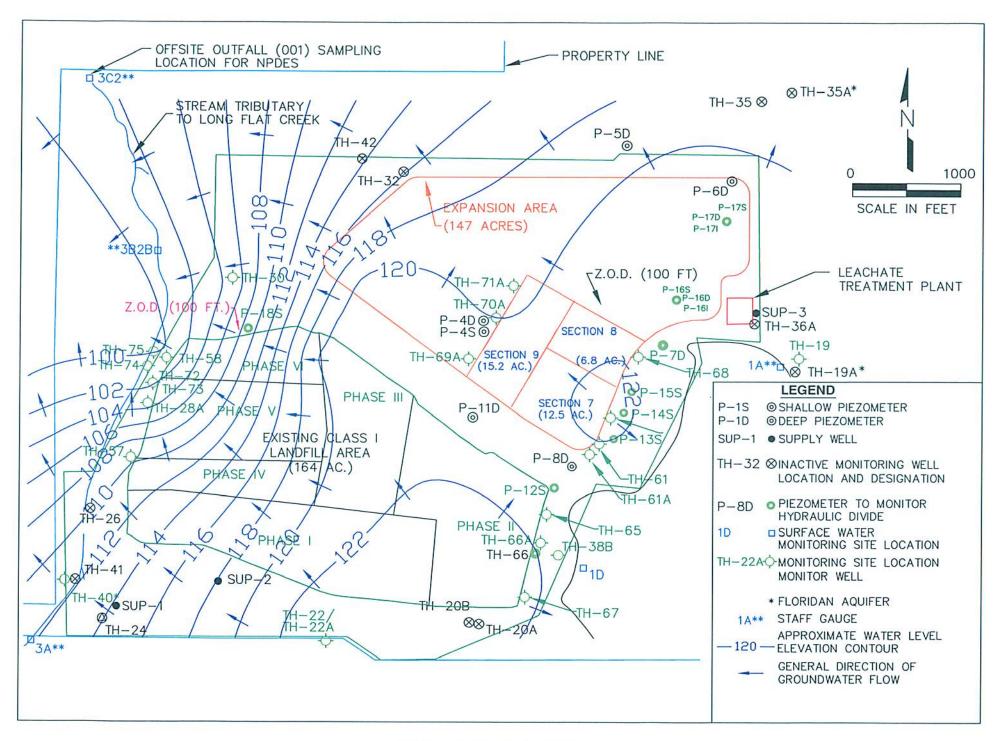
GENERAL (mg/l)				l			;		İ	1		(MCL) STANDARD
PARAMETERS	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	F.A.C. 62-550
conductivity (umhos/cm) (field)	335	195	231	291	421	144	1416	471	345	322	331	NS
dissolved oxygen (mg/l) (field)	0.44	1.26	0.17	0.51	0.25	0.21	0.67	1.69	0.89	0.18	0.45	NS
pH (field)	7.33	5.17	4.63	7.58	7.26	5.06	5.72	7.31	5.20	7.47	7.59	(6.5 - 8.5)**
temperature (°C) (field)	23.46	26.66	23.46	23.51	23.93	26.76	26.01	23.13	25.48	24.45	25.84	NS
turbidity (NTU) (field)	0.7	3.4	3.4	0.8	11.5	2.1	5.2	1.1	12	0.0	0.0	NS
total dissolved solids (mg/l)	210	130	160	190	230	110	1100	290	220	190	210	500**
chloride (mg/l)	7.3	46	70	6.5	15	38	400	31	96	9	11	250**
ammonia nitrogen (mg/l as N)	0.24	1	0.89	0.33	0.25	0.8	0.45	0.3	1.8	0.16	0.15	2.8***
									_		i	(MCL) STANDARD
Metals: (mg/l)	TH-19	TH-28A	TH-30	TH-40	TH-42	TH-57	TH-58	TH-72	TH-73	SUP-1	SUP-2	F.A.C. 62-550
arsenic	BDL	BDL	BDL	BDL	BDL	BDL	0.028	BDL	BDL	BDL	BDL	0.01*
iron	BDL	3	0.25	BDL	0.37	0.5	4.5	0.14 i	9.1	BDL	BDL	0.3**
sodium	14	18	22	16	16	14	96	34	33	9	8.9	160*
Note: Ref. Groundwater Guidance Co	ncentration	s, FDEP 200)7									
MCL=MAXIMUM CONTAMINANT LE	VEL											
BDL=BELOW DETECTION LIMIT												
ND=NO DATA COLLECTED	1											
NTU=NEPHELOMETRIC TURBIDITY											!	
i = reported value between the labora	tory method	detection li	nit and the la	aboratory p	ractical qua	antitation li	mit					***************************************
*=DENOTES PRIMARY DRINKING V												······································
**=DENOTES SECONDARY DRINKI			כ כ									
***=DENOTES FLORIDA GUIDANCE	CONCENT	FRATION										····
5.17	: EXCEED	S PRIMARY	OR SECON	DARY DR	INKING W	ATER						
ug/I=MICROGRAMS PER LITER												
	<u> </u>				į		1				1	
ug/I=MICROGRAMS PER LITER mg/I=MILLIGRAMS PER LITER NS=NO STANDARD (-) indicates that the sample was not											!	

GROUNDWATER AND SURFACE WATER ELEVATIONS FOR

SOUTHEAST LANDFILL

October 5, 2011

Measuring	T.O.C.	10/5/2011	Γ	
Point	Elevations	W.L.	W.L.	Time
I.D.	(NGVD)	B.T.O.C.	(NGVD)	
P-4D P-4S	140.78	21.52	119.26	11:40 AM
P-5D	140.95 151.94	Dry Dry	Dry Dry	11:39 AM 11:07 AM
P-6D-A	148.01	25.72	122.29	11:14 AM
P-7D	138.92	17.06	121.86	11:56 AM
P-8D	138.34	17.69	120.65	12:08 PM
P-11D	138.02	16.85	121.17	11:49 AM
P-12S	134.97	13.70	121.27	12:09 PM
P-13S	140.21	18.39	121.82	12:04 PM
P-14S P-15S	138.56 139.19	16.55 17.32	122.01	12:01 PM
P-16S	143.38	16.10	121.87 127.28	11:59 AM 10:55 AM
P-16I	144.15	23.54	120.61	10:54 AM
P-16D	143.84	23.25	120.59	10:53 AM
P-17S	137.35	13.50	123.85	11:02 AM
P-171	137.32	15.69	121.63	11:01 AM
P-17D	137.22	15.84	121.38	10:59 AM
P-18S P-19	129.86	18.25	111.61	10:15 AM
P-19	133.36 132.38	11.25 11.79	122.11 120.59	11:11 AM 11:19 AM
P-21	122.79	2.56	120.59	11:19 AM
P-22	128.35	8.15	120.20	11:32 AM
P-23	143.13	22.71	120.42	11:23 AM
TH-19*	130.27	94.58	35.69	10:47 AM
TH-20A	131.86	9.49	122.37	12:22 PM
TH-20B TH-22	132.57	10.40	122.17	12:29 PM
TH-22A	128.82 129.27	4.81 5.44	124.01 123.83	9:08 AM 9:09 AM
TH-24A	128.23	4.88	123.35	9:14 AM
TH-28A	131.10	28.11	102.99	10:05 AM
TH-30	128.88	23.97	104.91	9:56 AM
TH-32	129.90	14.00	115.90	10:21 AM
TH-35	145.98	28.14	117.84	10:38 AM
TH-36A	152.70	32.80	119.90	10:50 AM
TH-38A TH-38B	130.68 131.81	10.16 10.91	120.52 120.90	12:18 PM 12:17 PM
TH-40*	124.99	91.54	33.45	9:24 AM
TH-41*	125.00	94.49	30.51	9:23 AM
TH-42*	116.74	71.42	45.32	10:24 AM
TH-57	128.36	18.96	109.40	9:28 AM
TH-58	127.88	27.77	100.11	9:59 AM
TH-61 TH-61A	138.73 139.45	16.89	121.84	12:06 PM
TH-64	139.45	17.40 16.84	122.05 122.80	12:07 PM 12:02 PM
TH-65	135.40	14.18	121.22	12:12 PM
TH-66	130.58	8.80	121.78	12:15 PM
TH-66A	130.66	9.25	121.41	12:14 PM
TH-67	129.51	6.12	123.39	12:19 PM
TH-68	140.01	16.46	123.55	11:59 AM
TH-69A TH-70A	144.97 146.63	25.06	119.91	11:45 AM
TH-71A	146.95	26.26 25.86	120.37 121.09	11:43 AM 11:36 AM
TH-72	130.96	99.45	31.51	10:02 AM
TH-73	131.07	31.16	99.91	10:03 AM
TH-74	ND	9.61	ND	9:33 AM
TH-75	ND	7.61	ND	9:36 AM
SW-3A	3.0'=125.53'	0.30	122.83	9:01 AM
SW-3B2B SW-3C2	3.0'=97.97' 6.0'=92.33'	1.52 1.28	96.94	9:43 AM
Mine Cut #1	4.0'=122.14'	2.22	87.61 120.36	9:48 AM 11:53 AM
Mine Cut #2	6.0'=123.47'	2.70	120.17	10:43 AM
Mine Cut #3	4.0'=112.27'	1.80	110.07	10:26 AM
Mine Cut #4	5.0'=97.54'	1.42	93.96	10:31 AM
NGVD	= National Geode	tic Vertical Datum		
BTOC	= Top of Casing = Below Top of Ca	aeinn		ļ
	= Floridan Well	aviily		
	=No Data	-		
	= Water Level			





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: 660-43937-1 Client Project/Site: Southeast Landfill

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

Attn: David Adams

Authorized for release by: 10/20/2011 04:13:16 PM

Nancy Robertson Project Manager II

nancy.robertson@testamericainc.com

Review your project results through Total Access

Have a Question?

Ask—
The Expert

Visit us at: www.testamericainc.com

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

Page 1 of 52

10/20/2011



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Definitions/Glossary

Client: Hillsborough County Public Utilities Dep

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Project/Site: Southeast Landfill

TEF

TEQ

TestAmerica Job ID: 660-43937-1

3

Qualifiers	
Metals	
Qualifier	Qualifier Description
Ü	Indicates that the compound was analyzed for but not detected.
1	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chen	nistry
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.
Ø	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

Case Narrative

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Job ID: 660-43937-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-43937-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

Matale

No analytical or quality issues were noted.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 116328 were outside control limits for chloride. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 116006 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 116433 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.



Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

-									
Analyte		Qualifier	NONE	NONE	Unit	DII Fac	0	Method	Prep Type
Field pH	7.47				SU	1		Field Sampling	Total/NA
Field Temperature	24.45				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	322				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	9.0		0.50	0.31	mg/L	1		6010B	Total Recover
Chloride	9.0		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	Quatifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	190		10	10	mg/L	1		SM 2540C	Total/NA
Client Sample ID: SUP 2	WACS# 27756					Ļ;	ab	Sample ID: (660-43937-2
- Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.59				SU	1	_	Field Sampling	Total/NA
Field Temperature	25.84				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.45				mg/L	1		Field Sampling	Total/NA
Specific Conductance	331				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	8.9		0.50	0.31	mg/L	1	_	6010B	Total Recover
Chloride	11		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
									0 7
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Analyte Total Dissolved Solids	Result 210	Qualifier	RL 10	10	mg/L	Dil Fac	D	SM 2540C	Total/NA
	210	Qualifier ———				1			Total/NA
Total Dissolved Solids Client Sample ID: TH-73	210 WACS# 27754					1	ab	SM 2540C	Total/NA 660-43966-
Total Dissolved Solids	210 WACS# 27754	Qualifier	10	10	mg/L	1 <u>L</u>	ab	SM 2540C Sample ID:	Total/NA
Total Dissolved Solids Client Sample ID: TH-73 \ Analyte Field pH	210 WACS# 27754 Result		10	10	mg/L Unit	1 L Dil Fac	ab	SM 2540C Sample ID: (Total/NA 660-43966- Prep Type
Total Dissolved Solids Client Sample ID: TH-73 \ Analyte	210 WACS# 27754 Result 5.20		10	10	mg/L Unit SU	Dil Fac	ab D	SM 2540C Sample ID: 0 Method Field Sampling	Total/NA 660-43966- Prep Type Total/NA
Total Dissolved Solids Client Sample ID: TH-73 \ Analyte Field pH Field Temperature	210 WACS# 27754 Result 5.20 25.48		10	10	unit SU Degrees C	Dil Fac	ab D	SM 2540C Sample ID: (Method Field Sampling Field Sampling	Total/NA 660-43966- Prep Type Total/NA Total/NA
Total Dissolved Solids Client Sample ID: TH-73 \ Analyte Field pH Field Temperature Oxygen, Dissolved	210 WACS# 27754 Result 5.20 25.48 0.89		10	10	Unit SU Degrees C mg/L	Dil Fac	ab D	SM 2540C Sample ID: (Method Field Sampling Field Sampling Field Sampling	Total/NA 660-43966- Prep Type Total/NA Total/NA Total/NA
Total Dissolved Solids Client Sample ID: TH-73 \ Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance	Result 5.20 25.48 0.89 345		10	NONE_	Unit SU Degrees C mg/L umhos/cm	Dil Fac 1 1 1 1	ab D	SM 2540C Sample ID: (Method Field Sampling Field Sampling Field Sampling Field Sampling	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA
Total Dissolved Solids Client Sample ID: TH-73 N Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity	Result 5.20 25.48 0.89 345	Qualifier Qualifier	NONE	NONE MDL	Unit SU Degrees C mg/L umhos/cm NTU	Dil Fac 1 1 1 1	ab D	SM 2540C Sample ID: (Method Field Sampling Field Sampling Field Sampling Field Sampling	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type
Total Dissolved Solids Client Sample ID: TH-73 N Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte	210 WACS# 27754 Result 5.20 25.48 0.89 345 12.0 Result	Qualifier	NONE RL	NONE MDL 50	Unit SU Degrees C mg/L umhos/cm NTU Unit	Dil Fac Dil Fac 1 1 1 1 Dil Fac	ab D	SM 2540C Sample ID: (Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method	Prep Type Total/NA Prep Type Total Recove
Total Dissolved Solids Client Sample ID: TH-73 Manalyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron	Result 5.20 25.48 0.89 345 12.0 Result 9100	Qualifier	NONE RL 200	NONE MDL 50 0.31	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L	Dil Fac 1 1 1 1 1 Dil Fac	ab D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B	Prep Type Total/NA Prep Type Total Recove
Total Dissolved Solids Client Sample ID: TH-73 Manalyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium	Result 5.20 25.48 0.89 345 12.0 Result 9100	Qualifier	NONE RL 200 0.50	MDL 50 0.31 0.40	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L	Dil Fac 1 1 1 1 Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ab D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B	Prep Type Total/NA Prep Type Total Recove
Total Dissolved Solids Client Sample ID: TH-73 N Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8	Qualifier	NONE RL 200 0.50 1.0	MDL 50 0.31 0.40 0.010	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L	Dil Fac 1 1 1 1 Dil Fac 1 1 2	ab D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recove Total Recove
Total Dissolved Solids Client Sample ID: TH-73 N Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8	Qualifier Qualifier	NONE RL 200 0.50 1.0 0.020	MDL 50 0.31 0.40 0.010	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L	Dil Fac 1 1 1 1 Dil Fac 1 2 1	ab D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recover Total Recover Total/NA Total/NA
Total Dissolved Solids Client Sample ID: TH-73 N Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N Analyte	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8 Result 220	Qualifier Qualifier	RL 200 0.50 1.0 0.020 RL	MDL 50 0.31 0.40 0.010 RL	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L Unit	Dil Fac 1 1 1 1 Dil Fac 1 2 1 Dil Fac 1	D D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1 Method	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recover Total Recover Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA
Total Dissolved Solids Client Sample ID: TH-73 Manalyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N Analyte Total Dissolved Solids	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8 Result 220	Qualifier Qualifier	RL 200 0.50 1.0 0.020 RL	MDL 50 0.31 0.40 0.010 RL	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L mg/L	Dil Fac 1 1 1 1 Dil Fac 1 2 1 Dil Fac 1	ab D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1 Method SM 2540C	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recove Total Recove Total/NA Total/NA Total/NA Total/NA Total/NA
Total Dissolved Solids Client Sample ID: TH-73 Manalyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N Analyte Total Dissolved Solids Client Sample ID: TH-58 Manalyte	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8 Result 220	Qualifier Qualifier Qualifier	RL 200 0.50 1.0 0.020 RL 10	MDL 50 0.31 0.40 0.010 RL	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L mg/L	Dil Fac 1 1 1 1 Dil Fac 1 1 1 Dil Fac 1 L	ab D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1 Method SM 2540C Sample ID:	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recove Total Recove Total/NA Total/NA Prep Type Total/NA Total/NA Prep Type Total/NA
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N Analyte Total Dissolved Solids Client Sample ID: TH-58	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8 Result 220 WACS# 1571 Result	Qualifier Qualifier Qualifier	RL 200 0.50 1.0 0.020 RL 10	MDL 50 0.31 0.40 0.010 RL	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L mg/L Unit mg/L	Dil Fac Dil Fac 1 1 1 1 Dil Fac 1 1 Chi Fac 1 Dil Fac	ab D	SM 2540C Sample ID: Method Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1 Method SM 2540C Sample ID:	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recove Total/NA Total/NA Total/NA Prep Type Total Recove Total/NA Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N Analyte Total Dissolved Solids Client Sample ID: TH-58	Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8 Result 220 WACS# 1571 Result 5.72	Qualifier Qualifier Qualifier	RL 200 0.50 1.0 0.020 RL 10	MDL 50 0.31 0.40 0.010 RL	Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L mg/L Unit Unit	Dil Fac Dil Fac 1 1 1 1 Dil Fac 1 1 Coll Fac 1 Dil Fac 1	D D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1 Method SM 2540C Sample ID: Method Field Sampling	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recove Total Recove Total/NA Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA
Total Dissolved Solids Client Sample ID: TH-73 Manalyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Iron Sodium Chloride Ammonia as N Analyte Total Dissolved Solids Client Sample ID: TH-58 Manalyte Field pH Field Temperature	210 WACS# 27754 Result 5.20 25.48 0.89 345 12.0 Result 9100 33 96 1.8 Result 220 WACS# 1571 Result 5.72 26.01	Qualifier Qualifier Qualifier	RL 200 0.50 1.0 0.020 RL 10	MDL 50 0.31 0.40 0.010 RL	mg/L Unit SU Degrees C mg/L umhos/cm NTU Unit ug/L mg/L mg/L mg/L Unit SU Degrees C	Dil Fac Dil Fac 1 1 1 1 Dil Fac 1 Dil Fac 1 Dil Fac 1	D D	SM 2540C Sample ID: 0 Method Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 6010B 300.0 350.1 Method SM 2540C Sample ID: Method Field Sampling Field Sampling	Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recove Total Recove Total/NA Total/NA Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA

Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

lient Sample ID: TH-58 \	NACS# 1571 (C	ontinued)				L	ab	Sample ID: (660-43966-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dif Fac	D	Method	Prep Type
Arsenic	28		10	4.0	ug/L	1	_	6010B	Total Recover
Iron	4500		200	50	ug/L	1		6010B	Total Recover
Sodium	96		0.50	0.31	mg/L	1		6010B	Total Recover
Chloride	400		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	0.45	J3	0.020	0.010	=	1		350.1	Total/NA
Analyte	Rosuit	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1100		50	50		1	_	SM 2540C	Total/NA
Client Sample ID: TH-30	NACS# 1065					L	ab	Sample ID: (660-43966-
Analyte	Result	Qualifier	NONE	NONE	Unit	Oil Fac	D	Method	Prep Type
Field pH	4.63	=======================================			SU	1	Ξ.	Field Sampling	Total/NA
Field Temperature	23.46				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.17				mg/L	1		Field Sampling	Total/NA
Specific Conductance	231				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.4				NTU	1		Field Sampling	Total/NA
Analyto	Rosult	Qualifier	RL	MDL		Dil Fac	n	Method	Prep Type
Iron	250		200	50	ug/L	1	_	6010B	Total Recover
Sodium	22		0.50	0.31	-	1		6010B	Total Recover
Chloride	70		1,0	0.40	_	2		300.0	Total/NA
Ammonia as N	0.89		0.020	0.010	•	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	160		5.0	5.0			_	SM 2540C	Total/NA
Analyte Field pH	Rosult 5.06	Qualifier	NONE	NONE	Unit SU	Dil Fac	D	Method Field Sameline	Prep Type
Field Temperature						1		Field Sampling	Total/NA
Oxygen, Dissolved	26.76				Degrees C	1		Field Sampling	Total/NA
Specific Conductance	0.21				mg/L	1		Field Sampling	Total/NA
·	144				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.1				NTU	1		Field Sampling	Total/NA
Analyte Iron		Qualifier	RL	MDL	Unit	Dil Fac	D	Mothod	Prep Type
Sodium	500 14		200 0.50	50	ug/L	1		6010B	Total Recove
Chloride		J3		0.31	mg/L	1		6010B	Total Recover
Ammonia as N	0.80	Jo	0.50	0.20	mg/L	1		300.0	Total/NA
			0.020	0.010	mg/L	1		350.1	Tctal/NA
Analyte Total Dissolved Solids	Rosult 110	Qualifier	RL -	RL	Unit	Dil Fac	D	Method	Prep Type
			5.0	5.0	mg/L	1		SM 2540C	Total/NA
Client Sample ID: TH-28A	WACS# 19862					<u>L</u> ;	ab	Sample ID: (60-43966-
Analyte Field pH		Qualifier	NONE	NONE		Dil Fac	D	Method	Prep Type
Field Temperature	5.17				SU	1		Field Sampling	Total/NA
Oxygen, Dissolved	26.66				Degrees C	1		Field Sampling	Total/NA
CAJGUII, DISSUIVOU	1.26				mg/L	1		Field Sampling	Total/NA
Specific Conductors					umhos/cm	1		Field Sampling	Total/NA
•	195				MITLI			Clark Comme	T
Turbidity	3.4				NTU	1		Field Sampling	Total/NA
Turbidity Analyte	3.4 Result	Qualifier	RL	MDL	Unit	Dil Fac	٥	Method	Prep Type
Turbidity Analyte Iron	3.4 Result 3000	Qualifier	200	50	Unit		<u>0</u>	. •	Prep Type
Specific Conductance Turbidity Analyte Iron Sodium Chloride	3.4 Result	Qualifier		50 0.31	Unit	Dil Fac	<u> </u>	Method	

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Client Sample ID: TH-28A	VVACS# 19002	Continue	, a)			Li	aD	Sample ID:	660-43966-
Analyto	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia as N	1.0		0.020	0.010	mg/L	1	-	350.1	Total/NA
Analyto	Rosult	Qualifier	RL	RL	Unit	Dil Fac	D	Method	One Tune
Total Dissolved Solids	130	Qualifier	5.0	5.0	mg/L	- Uli Fac	_	SM 2540C	Prep Type Total/NA
			3.5	5.0	mg/L	•		3M 2340C	TOTAL
lient Sample ID: Duplicat	e 43966					L	ab	Sample ID: (660-43966-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		10	4.0	ug/L	1	_	6010B	Total Recove
Iron	4500		200	50	ug/L	1		6010B	Total Recove
Sodium	95		0.50	0.31	mg/L	1		6010B	Total Recove
Chloride	390		5.0	2.0	mg/L	10		300.0	Total/NA
Ammonia as N	0.47		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	940		50	50	mg/L	1	_	SM 2540C	Total/NA
Client Sample ID: TH-72 W	ACS# 27753					La	ab	Sample ID: (660-43986-
Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Dena Tuna
Field pH	7.31				SU	1	_	Field Sampling	Prep Type Total/NA
Field Temperature	23,13				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.69				mg/L	•		Field Sampling	Total/NA
Specific Conductance	471				umhos/cm	1			
Turbidity	1.1				NTU	1		Field Sampling Field Sampling	Total/NA Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	140	1	200	50	ug/L	1	-	6010B	Total Recove
Sodium	34		0.50		mg/L	1		6010B	Total Recove
Chloride	31		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.30		0.020	0.010	•	1		350.1	Total/NA
Analyto	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Disselved Solids	290		25		mg/L	1	-	SM 2540C	Tctal/NA
Client Sample ID: TH-42 W	ACS# 823					L	ab	Sample ID: (660-43986-
Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.26				SU	1	_	Field Sampling	Total/NA
Field Temperature	23.93				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.25				mg/L	1		Field Sampling	Total/NA
Specific Conductance	421				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.5				NTU	1		Field Sampling	Total/NA
Analyte		Qualifier	RL	MDL		Dil Fac	_	Method	
Iron	370	quanter	200		ug/L	1		6010B	Prep Type Total Recove
Sodium	16		0.50		mg/L	1		6010B	Total Recove
Chloride	15		0.50		mg/L	1		300.0	Total/NA
Ammonia as N	0.25		0.020	0.010	-	1		350.1	Total/NA
Analyte		Qualifier	RL		Unit		_		
Total Dissolved Solids	230	Gratities	25		mg/L	Dit Fac	-	Method SM 2540C	Prep Type Total/NA
Client Sample ID: TH-40 W	ACS# 27752					L	ab	Sample ID: (660-43986-
Analyto	Result	Qualifier	NONE	NONE	Unit	Dil Fac	n	Method	Prep Type
Field pH	7.58				SU	1		Field Sampling	Total/NA
•						•		ouriping	i william

Detection Summary

Detection Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

lient Sample ID: TH-40 \	NACS# 27752 (Continued)	· · · · · · · · · · · · · · · · · · ·			La	b	Sample ID:	660-43986-3
Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.51				mg/L	1	~~	Field Sampling	Total/NA
Specific Conductance	291				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Typo
Sodium	16		0.50	0.31	mg/L	1	-	6010B	Total Recover
Chloride	6.5		0.50	0.20	mg/L	1		300.0	Total/NA
Ammonia as N	0.33		0.020	0.010	mg/L	1		350.1	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prop Type
Total Dissolved Solids	190		10	10	mg/L	1	_	SM 2540C	Total/NA
lient Sample ID: TH-19 \	NACS# 822		· <u> </u>			La	b	Sample ID: (660-43986-4
		Qualifier	NONE	NONE		La Dil Fac		Sample ID: (660-43986-4
Analyte		Qualifior	NONE	NONE	Unit SU			- · · · · - · · · · · · · · · · · · · ·	*******
Analyte Field pH	Result	Qualifier	NONE	NONE		Dil Fac		Method	Ргер Туре
Analyte Field pH Field Temperature	Result 7.33	Qualifier	NONE	NONE	SU	Dil Fac		Method Field Sampling	Prep Type Total/NA
Analyte Field pH Field Temperature Oxygen, Dissolved	Result 7.33 23.46	Qualifier	NONE	NONE	SU Degrees C	Dil Fac 1		Method Field Sampling Field Sampling	Prep Type Total/NA Total/NA
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance	Result 7.33 23.46 0.44	Qualifier	NONE	NONE	SU Degrees C mg/L	Dil Fac		Method Field Sampling Field Sampling Field Sampling	Prep Type Total/NA Total/NA Total/NA
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity	Result 7.33 23.46 0.44 335 0.7	Qualifier	NONE	NONE	SU Degrees C mg/L umhos/cm	Dil Fac 1 1 1	D	Method Field Sampling Field Sampling Field Sampling Field Sampling	Prep Type Total/NA Total/NA Total/NA Total/NA
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte	Result 7.33 23.46 0.44 335 0.7				SU Degrees C mg/L umhos/cm NTU	Dil Fac 1 1 1 1 1	D	Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Sodium	Result 7.33 23.46 0.44 335 0.7		RL	MDL	SU Degrees C mg/L umhos/cm NTU Unit	Dil Fac 1 1 1 1 1 Dil Fac	D	Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Sodium Chloride	Result 7.33 23.46 0.44 335 0.7 Result		RL 0.50	MDL 0.31	SU Degrees C mg/L umhos/cm NTU Unit mg/L mg/L	Dil Fac 1 1 1 1 1 1 Dil Fac	D	Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 60108	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recovers
Analyte Field pH Field Temperature Oxygen, Dissolved Specific Conductance Turbidity Analyte Sodium Chloride Ammonia as N Analyte	Result 7.33 23.46 0.44 335 0.7 Result 14 7.3		RL 0.50 0.50	MDL 0.31 0.20	SU Degrees C mg/L umhos/cm NTU Unit mg/L mg/L	Dil Fac 1 1 1 1 1 Dil Fac 1 1	D	Method Field Sampling Field Sampling Field Sampling Field Sampling Field Sampling Method 6010B 300.0	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Prep Type Total Recovera

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Client Sample ID: SUP 1 WACS# 27755

Date Collected: 10/05/11 13:10

Date Received: 10/05/11 15:00

Lab Sample ID: 660-43937-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Arsenic	4.0	Ü	10	4.0	ug/L		10/13/11 09:30	10/14/11 08:57	1
Iron	50	U	200	50	ug/L		10/13/11 09:30	10/14/11 08:57	1
Sodium	9.0		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 08:57	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		0.50	0.20	mg/L		÷ ÷	10/18/11 13:27	1
Ammonia as N	0.16		0.020	0.010	mg/L			10/07/11 12:28	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			10/07/11 14:39	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7,47				SU			10/05/11 13:10	1
Field Temperature	24.45				Degrees C			10/05/11 13:10	1
Oxygen, Dissolved	0.18				mg/L			10/05/11 13:10	1
Specific Conductance	322				umhos/cm			10/05/11 13:10	1
Turbidity	0.0				NTU			10/05/11 13:10	



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Client Sample ID: SUP 2 WACS# 27756

Date Collected: 10/05/11 12:44

Lab Sample ID: 660-43937-2 Matrix: Water

Date Received: 10/05/11 15:00

Analyto		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dit Fac
Arsenic	4.0	Ū	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:01	1
Iron	50	U	200	50	ug/L		10/13/11 09:30	10/14/11 09:01	1
Sodium	8.9		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:01	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		0.50	0.20	mg/L			10/18/11 13:43	1
Ammonia as N	0.15		0.020	0.010	mg/L			10/07/11 12:29	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/07/11 14:39	1
Method: Field Sampling - Field Sa	mpling								
Analyte	Rosult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.59				SU			10/05/11 12:44	1
Field Temperature	25.84				Degrees C			10/05/11 12:44	1
Oxygen, Dissolved	0.45				mg/L			10/05/11 12:44	1
Specific Conductance	331				umhos/cm			10/05/11 12:44	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-73 WACS# 27754

Lab Sample ID: 660-43966-1

Date Collected: 10/06/11 10:49 Date Received: 10/06/11 13:28

Matrix: Water

Method: 6010B - Metals (ICP) - To	tal Recoverat	le							
Analyte	Result	Quatifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:11	1
Iron	9100		200	50	ug/L		10/13/11 09:30	10/14/11 09:11	1
Sodium	33		0.50	0,31	mg/L		10/13/11 09:30	10/14/11 09:11	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Chloride	96		1.0	0.40	mg/L			10/14/11 17:23	2
Ammonia as N	1.8		0.020	0.010	mg/L			10/07/11 11:42	1
Analyte	Result	Qualifier	RL_	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		10	10	mg/L			10/10/11 14:41	1
Method: Field Sampling - Field Sa	ımpling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Propared	Analyzod	Dil Fac
Field pH	5.20				SU			10/06/11 10:49	1
Field Temperature	25.48				Degrees C			10/06/11 10:49	1
Oxygen, Dissolved	0.89				mg/L			10/06/11 10:49	1
Specific Conductance	345				umhos/cm			10/06/11 10:49	1
Turbidity	12.0				NTU			10/06/11 10:49	



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43966-2

Matrix: Water

Client Sample ID: TH-58 WACS# 1571

Date Collected: 10/06/11 10:21 Date Received: 10/06/11 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Arsenic	28		10	4.0	ug/L		10/13/11 09:30	10/14/11 09:14	1
Iron	4500		200	50	ug/L		10/13/11 09:30	10/14/11 09:14	1
Sodium	96		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:14	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		5.0	2.0	mg/L		·	10/14/11 17:39	10
Ammonia as N	0.45	J3	0.020	0.010	mg/L			10/07/11 11:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Propared	Analyzed	Dil Fac
Total Dissolved Solids	1100		50	50	mg/L			10/10/11 14:41	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.72				SU			10/06/11 10:21	1
Field Temperature	26.01				Degrees C			10/06/11 10:21	1
Oxygen, Dissolved	0.67				mg/L			10/06/11 10:21	1
Specific Conductance	1416				umhos/cm			10/06/11 10:21	1
Turbidity	5.2				NTU			10/06/11 10:21	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43966-3

Matrix: Water

Client Sample ID: TH-30 WACS# 1065

Date Collected: 10/06/11 09:58 Date Received: 10/06/11 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:17	1
Iron	250		200	50	ug/L		10/13/11 09:30	10/14/11 09:17	1
Sodium	22		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:17	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Chloride	70	·	1.0	0.40	mg/L			10/14/11 17:55	2
Ammonia as N	0.89		0.020	0.010	mg/L			10/07/11 12:03	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	5.0	mg/L			10/10/11 14:42	1
- Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Propared	Analyzed	Dil Fac
Field pH	4.63				SU			10/06/11 09:58	1
Field Temperature	23.46				Degrees C			10/06/11 09:58	1
Oxygen, Dissolved	0.17				mg/L			10/06/11 09:58	1
Specific Conductance	231				umhos/cm			10/06/11 09:58	1
Turbidity	3.4				NTU			10/06/11 09:58	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-57 WACS# 1570

Date Collected: 10/06/11 11:27

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/13/11 09:30	10/14/11 09:21	1
Iron	500		200	50	ug/L		10/13/11 09:30	10/14/11 09:21	1
Sodium	14		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:21	1
General Chemistry									
Analyte	Rosult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38	J3	0.50	0.20	mg/L			10/14/11 18:10	1
Ammonia as N	0.80		0.020	0.010	mg/L			10/07/11 12:04	1
Analyte	Rosult	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		5.0	5.0	mg/L			10/10/11 14:42	1
Method: Field Sampling - Field S	Sampling								
Analyte	Rosult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.06				SU			10/06/11 11:27	1
Field Temperature	26.76				Degrees C			10/06/11 11:27	1
Oxygen, Dissolved	0,21				mg/L			10/06/11 11:27	1
Specific Conductance	144				umhos/cm			10/06/11 11:27	1
Turbidity	2.1				NTU			10/06/11 11:27	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Client Sample ID: TH-28A WACS# 19862 Lab Sample ID: 660-43966-5

Date Collected: 10/06/11 11:09 Date Received: 10/06/11 13:28 Matrix: Water

Method: 6010B - Metals (ICP) - Total Recov Analyte R		Qualifier	RL	MDI	Unit	D	Prepared	Analyzod	Dil Fac
Arsenic	4.0		10		ug/L		10/13/11 09:30	10/14/11 09:24	1
	3000	· ·	200		ug/L		10/13/11 09:30	10/14/11 09:24	1
Sodium	18		0.50		mg/L		10/13/11 09:30	10/14/11 09:24	1
Seneral Chemistry									
Analyte R	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46		0.50	0.20	mg/L	_		10/14/11 18:26	1
Ammonia as N	1.0		0.020	0.010	mg/L			10/07/11 12:05	1
Analyte R	esult	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	5.0	mg/L			10/10/11 14:43	1
Method: Field Sampling - Field Sampling									
	esult	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.17				SU			10/06/11 11:09	1
Field Temperature	26.66				Degrees C			10/06/11 11:09	1
Dxygen, Dissolved	1.26				mg/L			10/06/11 11:09	1
Specific Conductance	195				umhos/cm			10/06/11 11:09	1
Turbidity	3.4				NTU			10/06/11 11:09	1



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

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43966-6

Matrix: Water

Client Sample ID: Duplicate 43966

Date Collected: 10/06/11 00:00 Date Received: 10/06/11 13:28

Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Arsonic	26		10	4.0	ug/L		10/13/11 09:30	10/14/11 09:28	1
fron	4500		200	50	ug/L		10/13/11 09:30	10/14/11 09:28	1
Sodium	95		0.50	0.31	mg/L		10/13/11 09:30	10/14/11 09:28	1
General Chemistry									
Analyte	Result	Qualifier	RL	MÐL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	390		5.0	2.0	mg/L	_		10/18/11 13:59	10
Ammonia as N	0.47		0.020	0.010	mg/L			10/07/11 12:06	1
Analyte	Result	Qualifler	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		50	50	mg/L			10/10/11 14:43	



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43986-1

Matrix: Water

Client Sample ID: TH-72 WACS# 27753

Date Collected: 10/07/11 11:44 Date Received: 10/07/11 13:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	Ü	10	4.0	ug/L		10/12/11 09:06	10/13/11 09:50	1
Iron	140	I	200	50	ug/L		10/12/11 09:06	10/13/11 09:50	1
Sodium	34		0.50	0.31	mg/L		10/12/11 09:06	10/13/11 09:50	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		0.50	0.20	mg/L	_		10/12/11 14:34	1
Ammonia as N	0.30		0.020	0.010	mg/L			10/18/11 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		25	25	mg/L			10/10/11 14:44	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.31				SU			10/07/11 11:44	1
Field Temperature	23.13				Degrees C			10/07/11 11:44	1
Oxygen, Dissolved	1.69				mg/L			10/07/11 11:44	1
Specific Conductance	471				umhos/cm			10/07/11 11:44	1
Turbidity	1.1				NTU			10/07/11 11:44	4



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43986-2

Matrix: Water

Client Sample ID: TH-42 WACS# 823

Date Collected: 10/07/11 10:55 Date Received: 10/07/11 13:40

Method: 6010B - Metals (ICP) - T Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzod	Dil Fac
Arsenic	4.0	Ū ·	10	4.0	ug/L		10/12/11 09:06	10/13/11 10:03	1
Iron	370		200	50	ug/L		10/12/11 09:06	10/13/11 10:03	1
Sodium	16		0.50	0.31	mg/L		10/12/11 09:06	10/13/11 10:03	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		0.50	0.20	mg/L			10/12/11 14:50	1
Ammonia as N	0.25		0.020	0.010	mg/L			10/18/11 14:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	230		25	25	mg/L			10/10/11 14:44	1
- Method: Field Sampling - Field :	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzod	Dil Fac
Field pH	7.26				SU			10/07/11 10:55	1
Field Temperature	23.93				Degrees C			10/07/11 10:55	1
Oxygen, Dissolved	0.25				mg/L			10/07/11 10:55	1
Specific Conductance	421				umhos/cm			10/07/11 10:55	1
Turbidity	11.5				NTU			10/07/11 10:55	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43986-3

Matrix: Water

Client Sample ID: TH-40 WACS# 27752

Date Collected: 10/07/11 09:29 Date Received: 10/07/11 13:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	Ū	10	4.0	ug/L		10/12/11 09:06	10/13/11 10:06	1
Iron	50	U	200	50	ug/L		10/12/11 09:06	10/13/11 10:06	1
Sodium	16		0.50	0,31	mg/L		10/12/11 09:06	10/13/11 10:06	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	Đ	Prepared	Analyzed	Dil Fac
Chloride	6.5		0.50	0.20	mg/L			10/12/11 15:06	1
Ammonia as N	0.33		0.020	0.010	mg/L			10/18/11 14:32	1
Analyte	Resuit	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		10	10	mg/L			10/10/11 14:45	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzod	Dil Fac
Field pH	7.58				SU			10/07/11 09:29	1
Field Temperature	23.51				Degrees C			10/07/11 09:29	1
Oxygen, Dissolved	0.51				mg/L			10/07/11 09:29	1
Specific Conductance	291				umhos/cm			10/07/11 09:29	1
Turbidity	0.8				NTU			10/07/11 09:29	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43986-4

Matrix: Water

Client Sample ID: TH-19 WACS# 822

Date Collected: 10/07/11 10:05 Date Received: 10/07/11 13:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 10:10	1
Iron	50	U	200	50	ug/L		10/12/11 09:06	10/13/11 10:10	1
Sodium	14		0,50	0.31	mg/L		10/12/11 09:06	10/13/11 10:10	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Propared	Analyzed	Dil Fac
Chloride	7.3		0.50	0.20	mg/L			10/12/11 15:21	1
Ammonia as N	0.24		0.020	0.010	mg/L			10/18/11 14:34	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	210		10	10	mg/L			10/10/11 14:45	1
- Method: Field Sampling - Field Samp	oling								
Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.33				SU			10/07/11 10:05	1
Field Temperature	23.46				Degrees C			10/07/11 10:05	1
Oxygen, Dissolved	0.44				mg/L			10/07/11 10:05	1
Specific Conductance	335				umhos/cm			10/07/11 10:05	1
Turbidity	0.7				NTU			10/07/11 10:05	1



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-116147/1-A

Matrix: Water

Analysis Batch: 116190

Client Sample ID: Method Blank Prep Type: Total Recoverable

	Prep Batch	: 116147
Prepared	Analyzed	Dil Fac

	"10	****							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		10/12/11 09:06	10/13/11 09:40	1
Iron	50	U	200	50	ug/L		10/12/11 09:06	10/13/11 09:40	1
Sodium	0.31	U	0.50	0.31	mg/L		10/12/11 09:06	10/13/11 09:40	1

MR MR



Lab Sample ID: LCS 660-116147/2-A

Matrix: Water

Analysis Batch: 116190

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 116147

	Spike	LCS	LCS		% Rec.	
Analyte	Added	Result	Qualifler Unit	D % Rec	Limits	
Arsenic	1000	982	ug/L	98	75 - 125	
Iron	1000	1040	ug/L	104	75 - 125	
Sodium	10.0	10.1	mg/L	101	75 - 125	

Client Sample ID: TH-72 WACS# 27753

Matrix: Water

Analysis Batch: 116190

Lab Sample ID: 660-43986-1 MS

Client Sample	10. 11	1-12 117	UU# 21133
Prep	Type:	Total R	ecoverable

Prep Batch: 116147

	Sample	Sample	Spike	MS	MS				% Rec.	
Analyte	Result	Qualifier	Addod	Result	Qualifier	Unit	D	% Rec	Limits	
Arsenic	4.0	U	1000	1010		ug/L	_	101	75 - 125	
Iron	140	1	1000	1180		ug/L		104	75 - 125	
Sodium	34		10.0	44.1		mg/L		101	75 - 125	

Lab Sample ID: 660-43986-1 MSD

Matrix: Water

Analysis Batch: 116190

Prep Type: Total Recoverable

Prep Batch: 116147

	Analysis Dateil. 110100												
	-	Sample	Sample	Spike	MSD	MSD				% Rec.		RPD	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits	RPD	Limit	
:	Arsenic	4.0	U	1000	1010		ug/L		101	75 - 125	0	20	
İ	Iren	140	1	1000	1170		ug/L		104	75 - 125	1	20	
	Sodium	34		10.0	44.3		mg/L		104	75 - 125	0	20	

Lab Sample ID: MB 660-116189/1-A

Matrix: Water

Analysis Batch: 116241

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 116189

		МВ	MB						•	
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ì	Arsenic	4.0	Ū	10	4.0	ug/L		10/13/11 09:30	10/14/11 08:31	1
1	Iron	50	U	200	50	ug/L		10/13/11 09:30	10/14/11 08:31	1
1	Sodium	0.31	U	0.50	0.31	mg/L		10/13/11 09:30	10/14/11 08:31	1

Lab Sample ID: LCS 660-116189/2-A

Matrix: Water

Analysis Batch: 116241

Prep Type: Total Recoverable

Prep Batch: 116189

	•	Spike	LCS	LCS				% Rec.	
1	Analyte	Added	Rosult	Qualifier	Unit	D	% Rec	Limits	
į	Arsenic	1000	983		ug/L	_	98	75 - 125	
	Iron	1000	1050		ug/L		105	75 - 125	
	Sodium	10.0	10.3		ma/L		103	75 - 125	

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-44047-C-1	I-B MS							Client S	ample ID:	Matrix	Spike
Matrix: Water								Prep T	ype: Total	Recove	erable
Analysis Batch: 116241									Prep B	atch: 1	16189
	Sample	Sample	Spike	MS	MS				% Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits		
Arsenic	5.4	1	1000	1020		ug/L		102	75 - 125		
Iron	690		1000	1760		ug/L		107	75 - 125		
Sodium	9.7		10.0	20.2		mg/L		105	75 - 125		
Analysis Batch: 116241	Sample	Sample	Spike	MSD	MSD				ype: Total Prep B % Rec.	atch: 1	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits	RPD	Limit
Arsenic	5.4		1000	1010		ug/L		100	75 - 125	1	20
Iron	690		1000	1700		ug/L		101	75 - 125	4	20
Sodium	9.7		10.0	19.7		mg/L		100	75 - 125	3	20
		ography									
flethod: 300.0 - Anions, Ic	on Chromat	ograpily									
flethod: 300.0 - Anions, Id Lab Sample ID: MB 660-11618		ography	······································					Client Sa	mple ID: N	fethod	Blank

Analyte	R	osult	Qualifier		RL	М	DL	Unit		D	Pre	pared	Analyzed	Dil Fac
Chloride		0.20	U		0.50	0	.20	mg/L					10/12/11 10:16	1
Lab Sample ID: LCS 660-116185/4										Cli	ent S	Sample	ID: Lab Contro	ol Sample
Matrix: Water										- •-			Prep Type:	-
Analysis Batch: 116185														
				Spike		LCS	LCS	i					% Rec.	
Analyte				Added		Result	Qua	lifier	Unit		D	% Rec	Limits	
Chloride				10.0		9.55			mg/L	,	_	96	90 - 110	
_ Lab Sample ID: 660-43986-1 MS										Clic	ent S	ample l	D: TH-72 WAC	S# 27753
Matrix: Water													Prep Type:	
Analysis Batch: 116185													, .op .ypo.	, , , , , , , , , , , , , , , , , , , ,
: 	Sample	Sam	ρle	Spike		MS	MS						% Roc.	
Analyte	Result	Qual	ifier	Added		Result	Qua	lifier	Unit		D	% Rec	Limits	
Chloride	31			10.0		41.4			mg/L		_	104	90 - 110	· · · · · · · · · · · · · · · · · · ·
Lab Sample ID: 660-43986-1 MSD										Clie	ent S	iample I	D: TH-72 WAC	S# 27753
Matrix: Water													Prep Type:	
Analysis Batch: 116185														
-	Sample	Sam	ple	Spike		MSD	MSI	D					% Roc.	RPD

мв мв

_ Lab Sample ID: MB 660-116328/	3						c	lient S	ample ID: I	Method	Blank
Chloride	31		10.0	40.5		mg/L	_	95	90.110	2	30
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits	RPD	Limit
			· Pinto						/9 1100.		141 0

Lab Sample ID: MB 660-116328/3

Matrix: Water

Analysis Batch: 116328

Analysis Batch: 116185

мв мв MDL Unit Rosult Qualifier RL Prepared Analyzed 0.20 mg/L Chloride 0.20 U 0.50 10/14/11 09:39

Dil Fac

Prep Type: Total/NA

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

Method: 300.0 - Anions, Ion Ch	romat	ography (C	ontinued))							
Lab Sample ID: LCS 660-116328/4							Client	t Sample	e ID: Lab Co	ontrol Sa	mple
Matrix: Water									Prep T	ype: Tot	al/NA
Analysis Batch: 116328											
			Spike	LCS	LCS				% Rec.		
Analyte			Added	Result	Qualifler	Unit		% Rec	Limits		
Chloride			10.0	9.46		mg/L		95	90.110		
Lab Sample ID: 660-43966-4 MS							Clien	t Sample	e ID: TH-57	WACS#	1570
Matrix: Water									Prep T	ype: Tot	al/NA
Analysis Batch: 116328											
	Sample	Sample	Spike	MS	MS				% Roc.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	C	% Rec	Limits		
Chloride	38	J3	10.0	45.8	J3	mg/L		82	90_110		
Lab Sample ID: 660-43966-4 MSD							Clien	t Sampl	e ID: TH-57	WACS#	1570
Matrix: Water									Prep T	ype: Tot	al/NA
Analysis Batch: 116328											
,	Sample	Sample	Spike	MSD	MSD				% Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		% Red	: Limits	RPD	Limit
Chloride	38	J3	10.0	45.9	J3	mg/L		83	90.110	0	30
Lab Sample ID: MB 660-116472/10								Client	Sample ID:	Method	Blank
Matrix: Water									Prep T	ype: Tot	al/NA
Analysis Batch: 116472											
		мв мв									
Analyte	R	esult Qualifier			IDL Unit		<u>D</u>	repared	Analyz		Dil Fac
Chloride		0.20 U	C	0.50	.20 mg/L				10/18/11	12:10	1
Lab Sample ID: LCS 660-116472/11							Clien	t Sampl	e ID: Lab C	ontrol Sa	ample
Matrix: Water									Prep T	ype: Tot	tal/NA
Analysis Batch: 116472											
-			Spike	LCS	LCS				% Rec.		
Analyte			Added	Result	Qualifier	Unit	t	D % Red	Limits		
Chloride									90.110		
-			10.0	9.59		mg/L		96	30.110		
Lab Sample ID: 660-43937-1 MS			10.0	9.59		mg/L	Client		ID: SUP 1	NACS#	27755
Lab Sample ID: 660-43937-1 MS Matrix: Water			10.0	9.59		mg/L	Client		ID: SUP 1		
•			10.0	9.59		mg/L	Client		ID: SUP 1	WACS# ype: Tol	
Matrix: Water	Sample	Samplo	10.0 Spika		MS	mg/L	Client		ID: SUP 1		
Matrix: Water	-	•		MS	MS Qualifier			Sample	ID: SUP 1 Prep T % Rec.		
Matrix: Water Analysis Batch: 116472	-	Samplo Qualifier	Spiko	MS		mg/L Unit mg/L		Sample	ID: SUP 1 Prep T		
Matrix: Water Analysis Batch: 116472 Analyte	Result	•	Spiko Added	MS Result		Unit	<u>!</u>	Sample D % Red 108	ID: SUP 1 1 Prep T % Rec.	ype: Tof	tal/NA
Matrix: Water Analysis Batch: 116472 Analyte Chloride	Result	•	Spiko Added	MS Result		Unit	<u>!</u>	Sample D % Red 108	ID: SUP 1 1	ype: Tol	27755
Matrix: Water Analysis Batch: 116472 Analyte Chloride Lab Sample ID: 660-43937-1 MSD Matrix: Water	Result	•	Spiko Added	MS Result		Unit	<u>!</u>	Sample D % Red 108	ID: SUP 1 1	ype: Tof	27755
Matrix: Water Analysis Batch: 116472 Analyte Chloride Lab Sample ID: 660-43937-1 MSD	Result 9.0	•	Spiko Added	MS Result 19.8		Unit	<u>!</u>	Sample D % Red 108	ID: SUP 1	ype: Tol	27755
Matrix: Water Analysis Batch: 116472 Analyte Chloride Lab Sample ID: 660-43937-1 MSD Matrix: Water	9.0	Qualifier	Spiko Added 10.0	MS Result 19.8 MSD	Qualifier	Unit	Client	Sample D % Red 108	ID: SUP 1 Prep T Rec. Limits 90.110 ID: SUP 1 Prep T	ype: Tol	27755 tal/NA



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Lab Sample ID: MB 660-116002/3									C	lient Sa	mple ID: Meth	
Matrix: Water											Prep Type:	Total/N
Analysis Batch: 116002		***	***									
Anabida	_	MB	MB		ъ.			_	_			21.5
Analyte Ammonia as N		.010	Qualifier		RL 0.020		OL Unit	<u> </u>	Pro	pared	Analyzed 10/07/11 11:09	Dil Fa
Ammonia as N	U	.010	U		0.020	0.0	10 mg/L				10/0//11 11:09	
Lab Sample ID: LCS 660-116002/4								C	lient S	Sample I	D: Lab Contro	ol Sampl
Matrix: Water											Prep Type:	-
Analysis Batch: 116002												
				Spike		LCS	LCS				% Rec.	
Analyte				Added		Result	Qualifier	Unit	D	% Rec	Limits	
Ammonia as N				0,500		0,511		mg/L		102	90 - 110	
l at 0 l- 10- 000 40000 0 7 440												
Lab Sample ID: 660-43882-C-7 MS										Client S	iample ID: Ma	-
Matrix: Water											Prep Type:	i otai/N
Analysis Batch: 116002	Camala		-1-	0-11		MS	ue				a	
Analyte	Sample		•	Spike				11-14	_	4/ 5	% Rec.	
Ammonia as N	Result 0.010		IITIOF	Added 1,00		1.02	Qualifier	Unit	_ D	% Rec 102	Limits 90 - 110	
Andronia as iv	0.010	U		1.00		1.02		mg/L		102	90-110	
Lab Sample ID: 660-43882-C-7 MSD	ı							Clie	nt Sar	nple ID:	Matrix Spike	Duplicat
Matrix: Water											Prep Type:	
Analysis Batch: 116002												. • • • • • • • • • • • • • • • • • • •
,	Sample	Sam	ple	Spike		MSD	MSD				% Rec.	RP
Analyte	Result		•	Added		Result	Qualifier	Unit	D	% Rec		PD Lin
Ammonia as N	0.010			1.00		1.02		mg/L		102	90 - 110	0
Lab Sample ID: MB 660-116006/3										lient Sa	mple ID: Meth	od Blan
Matrix: Water											Prep Type:	Total/N
Analysis Batch: 116006												
		MB	MB									
Analyte	R	esult	Qualifier		RL	MI	DL Unit	D	Pre	pared	Analyzed	Dil Fa
	C	0.010	U		0.020	0.0	10 mg/L				10/07/11 11:57	
Ammonia as N												
								^	1:4	·	D- I -L 04-	
Lab Sample ID: LCS 660-116006/4								С	lient \$	Sample I	D: Lab Contro	-
Lab Sample ID: LCS 660-116006/4 Matrix: Water								С	lient S	Sample I	D: Lab Contro Prep Type:	-
Lab Sample ID: LCS 660-116006/4 Matrix: Water				Calles		ıce	100	С	lient \$	Sample I	Prep Type:	-
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006				Spike		LCS					Prep Type:	-
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006				Added		Result	LCS Qualifier	Unit	lient S	% Rec	Prep Type: % Rec. Limits	-
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006											Prep Type:	-
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N				Added		Result		Unit		% Rec 102	Prep Type: % Rec. Limits 90 - 110	Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS				Added		Result		Unit		% Rec 102	Prep Type: % Rec. Limits 90 . 110 Sample ID: Ma	Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water				Added		Result		Unit		% Rec 102	Prep Type: % Rec. Limits 90 - 110	Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water	Sample	Sam	- -	0.500		0.509	Qualifier	Unit		% Rec 102	Prep Type: % Rec. Limits 90 - 110 Sample ID: Ma Prep Type:	Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006	Sample Result			Added 0.500 Spike		Result 0.509	Qualifier MS	Unit mg/L	_ <u>D</u>	% Rec 102 Client S	Prep Type: % Rec. Limits 90.110 Sample ID: Ma Prep Type: % Rec.	Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Analyte Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006	Sample Result 0.010	Qual		0.500		Result 0.509	Qualifier	Unit		% Rec 102	Prep Type: % Rec. Limits 90 - 110 Sample ID: Ma Prep Type:	Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N	Result 0.010	Qual		Added 0.500 Spike Added		Result 0.509 MS Result	Qualifier MS	Unit mg/L Unit mg/L	_ <u>D</u>	% Rec 102 Client S % Rec 98	% Rec. Limits 90.110 Sample ID: Ma Prep Type: % Rec. Limits 90.110	Total/N trix Spik Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MSD	Result 0.010	Qual		Added 0.500 Spike Added		Result 0.509 MS Result	Qualifier MS	Unit mg/L Unit mg/L	_ <u>D</u>	% Rec 102 Client S % Rec 98	Prep Type: % Rec. Limits 90.110 Sample ID: Ma Prep Type: % Rec. Limits 90.110 Matrix Spike	Total/N trix Spik Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MSD Matrix: Water	Result 0.010	Qual		Added 0.500 Spike Added		Result 0.509 MS Result	Qualifier MS	Unit mg/L Unit mg/L	_ <u>D</u>	% Rec 102 Client S % Rec 98	Prep Type: % Rec. Limits 90.110 Sample ID: Ma Prep Type: % Rec. Limits 90.110	Total/N trix Spik Total/N
Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MSD Matrix: Water	0.010	Qual U	lifler	Added 0.500 Spike Added 1.00		MS Result 0.976	Qualifier MS Qualifier	Unit mg/L Unit mg/L	_ <u>D</u>	% Rec 102 Client S % Rec 98	Prep Type: % Rec. Limits 90.110 Sample ID: Ma Prep Type: % Rec. Limits 90.110 Matrix Spike Prep Type:	Total/N trix Spik Total/N Duplical Total/N
Ammonia as N Lab Sample ID: LCS 660-116006/4 Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MS Matrix: Water Analysis Batch: 116006 Analyte Ammonia as N Lab Sample ID: 660-43902-C-6 MSD Matrix: Water Analysis Batch: 116006 Analyte Analysis Batch: 116006 Analyte	Result 0.010	Qual U	lifier	Added 0.500 Spike Added		MS Result 0.976	Qualifier MS	Unit mg/L Unit mg/L	_ <u>D</u>	% Rec 102 Client S % Rec 98	Prep Type: % Rec. Limits 90.110 Sample ID: Ma Prep Type: % Rec. Limits 90.110 Matrix Spike Prep Type: % Rec.	Total/N trix Spik Total/N



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Lab Sample ID: 660-43966-2 MS								Clien	t S	iample il	D: TH-58	WACS	# 157°
Matrix: Water											Prep Ty	rpe: To	tal/NA
Analysis Batch: 116006													
	-	Sample	Spike		MS	MS					% Rec.		
Analyte		Qualifier	Added	41.5		Qualifier	Unit)	% Rec	Limits		
Ammonia as N	0.45	J3	1.00		1.18	J3	mg/L			73	90 - 110		
Lab Sample ID: 660-43966-2 MSD								Clien	t S	iample II	D: TH-58	WACS	# 1571
Matrix: Water										•	Prep Ty	pe: To	tal/NA
Analysis Batch: 116006													
	Sample	Sample	Spike		MSD	MSD					% Rec.		RPE
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit	()	% Rec	Limits	RPD	Limi
Ammonia as N	0.45	J3	1.00		1.18	J3	mg/L		_	73	90 - 110	0	3
Lab Sample ID: MB 660-116433/13									С	lient Sar	mple ID: N	/lethod	Blani
Matrix: Water											Prep Ty		
Analysis Batch: 116433												•	
•		мв мв											
Analyte	R	esult Qualifier		RL	М	DL Unit		D F	're	pared	Analyze	ed .	Dil Fa
Ammonia as N		0.010 U		0.020	0.0	10 mg/L				<u></u>	10/18/11 1	4:05	
Lab Sample ID: LCS 660-116433/14								Clien	+ 5	iamnle II	D: Lab Co	ntrol S	amnl
Matrix: Water								Onç	•	rampic ii	Prep Ty		•
Analysis Batch: 116433											11001)	/рс. го	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Analysis buton. 110400			Spike		LCS	LCS					% Rec.		
Analyte			Added			Qualifier	Unit	ı	,	% Rec	Limits		
Ammonia as N			0.500		0.495		mg/L		-	99	90 - 110		
Lab Sample ID: 660-44012-D-11 MS										Client S	omalo ID:	Matrix	C mile
Matrix: Water	l									Citent S	ample ID:		
											Prep Ty	/pe: 10	laiini
Analysis Batch: 116433	Sample	Sample	Spike		MS	MS					% Rec.		
Analyte	Result	•	Added		Result		Unit		5	% Pos	Limits		
Ammonia as N	0.025	J3	1.00		0.861	J3	mg/L		_	% Rec 84	90.110		
	_						_						
Lab Sample ID: 660-44012-D-11 MS	טו						C	lient S	ar	npie iu:	Matrix Sp		-
Matrix: Water											Prep Ty	/pe: to	tal/N/
Analysis Batch: 116433					1460								
Acaba		Sample	Spike			MSD			_		% Rec.		RPI
Analyte		Qualifier	Added			Qualifier	Unit		0	% Rec	Limits	RPD	Limi
Ammonia as N	0.025	13	1.00		0.863	J3	mg/L			84	90.110	0	3
lethod: SM 2540C - Solids, To	otal Dis	ssolved (TD	S)						-				
Lab Sample ID: MB 660-116016/1		<u> </u>								liant C-			
Matrix: Water									•	ment 5a	mple ID: I		
											Prep Ty	ype: To	otal/N/
Analysis Batch: 116016		ND NO											
		MB MB											
Analyte	_	esult Qualifier		RL		RL Unit		D I		pared	Analyz		Dil Fa



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Method: SM 2540C - Solids, To	otal Dis	solved (T	OS) (Con	tinue	d)						
Lab Sample ID: LCS 660-116016/2 Matrix: Water Analysis Batch: 116016								Client	Sample l	ID: Lab Control S Prep Type: To	-
			Spike		LCS	LCS				% Roc.	
Analyte			Added		Result	Qualifier	Unit	D	% Rec	Limits	
Total Dissolved Solids			10000		9850		mg/L		99	80 - 120	
Lab Sample ID: 660-43914-D-1 DU Matrix: Water									Clie	nt Sample ID: Du Prep Type: To	
Analysis Batch: 116016	C1-	C1-			011	DU					
Analyte	•	Sample						_			RPD
Total Dissolved Solids	1300	Qualifier			Result 1220	Qualifier	Unit mg/L	<u>D</u>			Limit 20
Lab Sample ID: MB 660-116079/1 Matrix: Water Analysis Batch: 116079		мв мв							Client Sa	ımple ID: Method Prep Type: To	
Analyte	R	esult Qualifier		RL		RL Unit		D Pr	epared	Analyzed	Dil Fac
Total Dissolved Solids		5.0 U	 -	5.0		5.0 mg/L				10/10/11 14:38	1
Lab Sample ID: LCS 660-116079/2								Client	Sample	ID: Lab Control S	Sample
Matrix: Water										Prep Type: To	•
Analysis Batch: 116079											
			Spike		LCS	LCS				% Rec.	
Analyte			Added		Result	Qualifier	Unit	D	% Rec	Limits	
Total Dissolved Solids			10000		9930		mg/L		99	80 - 120	
Lab Sample ID: 660-43961-E-1 DU									Clie	nt Sample ID: Du	plicate
Matrix: Water										Prep Type: To	•
Analysis Batch: 116079											
	Sample	Sample			DU	DU					RPD
Analyte	Result	Qualifier			Result	Qualifier	Unit	D		RPD	Limit
Total Dissolved Solids	74				76.0		mg/L			3	20



QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Metals	•				
Prep Batch: 116147					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
660-43986-1	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43986-1 MS	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43986-1 MSD	TH-72 WACS# 27753	Total Recoverable	Water	3005A	
660-43986-2	TH-42 WACS# 823	Total Recoverable	Water	3005A	
660-43986-3	TH-40 WACS# 27752	Total Recoverable	Water	3005A	
560-43986-4	TH-19 WACS# 822	Total Recoverable	Water	3005A	
LCS 660-116147/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-116147/1-A	Method Blank	Total Recoverable	Water	3005A	
rep Batch: 116189					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bate
660-43937-1	SUP 1 WACS# 27755	Total Recoverable	Water	3005A	
660-43937-2	SUP 2 WACS# 27756	Total Recoverable	Water	3005A	
660-43966-1	TH-73 WACS# 27754	Total Recoverable	Water	3005A	
660-43966-2	TH-58 WACS# 1571	Total Recoverable	Water	3005A	
660-43966-3	TH-30 WACS# 1065	Total Recoverable	Water	3005A	
660-43966-4	TH-57 WACS# 1570	Total Recoverable	Water	3005A	
60-43966-5	TH-28A WACS# 19862	Total Recoverable	Water	3005A	
560-43966-6	Duplicate 43966	Total Recoverable	Water	3005A	
660-44047-Ç-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
60-44047-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
CS 660-116189/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-116189/1-A	Method Blank	Total Recoverable	Water	3005A	
nalysis Batch: 116190					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bat
660-43986-1	TH-72 WACS# 27753	Total Recoverable	Water	6010B	1161
560-43986-1 MS	TH-72 WACS# 27753	Total Recoverable	Water	6010B	1161
560-43986-1 MSD	TH-72 WACS# 27753	Total Recoverable	Water	6010B	1161
660-43986-2	TH-42 WACS# 823	Total Recoverable	Water	6010B	1161
560-43986-3	TH-40 WACS# 27752	Total Recoverable	Water	6010B	1161
560-43986-4	TH-19 WACS# 822	Total Recoverable	Water	6010B	1161
LCS 660-116147/2-A	Lab Control Sample	Total Recoverable	Water	6010B	1161
MB 660-116147/1-A	Method Blank	Total Recoverable	Water	6010B	1161
nalysis Batch: 116241		Total New Yelland	• • • • • • • • • • • • • • • • • • •	00.05	
•		Door Tues	Madulu	Method	Deep Bar
Lab Sample ID	Client Sample ID	Prep Type Total Recoverable	Matrix Water	6010B	Prep Ba
660-43937-1	SUP 1 WACS# 27755				
660-43937-2	SUP 2 WACS# 27756	Total Recoverable	Water	6010B	116
660-43966-1	TH-73 WACS# 27754	Total Recoverable	Water	6010B	116
560-43966-2	TH-58 WACS# 1571	Total Recoverable	Water	6010B	116
560-43966-3	TH-30 WACS# 1065	Total Recoverable	Water	6010B	116
660-43966-4	TH-57 WACS# 1570	Total Recoverable	Water	6010B	116
360-43966-5	TH-28A WACS# 19862	Total Recoverable	Water	6010B	116
560-43966-6	Duplicate 43966	Total Recoverable	Water	6010B	116
560-44047-C-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	116
660-44047-C-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	116
LCS 660-116189/2-A	Lab Control Sample	Total Recoverable	Water	6010B	1161
MB 660-116189/1-A	Method Blank	Total Recoverable	Water	6010B	1161

TestAmerica Job ID: 660-43937-1

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

General Chemistry					
Analysis Batch: 11600:	2				
Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batc
660-43882-C-7 MS	Matrix Spike	Total/NA	Water	350,1	
660-43882-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-43966-1	TH-73 WACS# 27754	Total/NA	Water	350.1	
LCS 660-116002/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-116002/3	Method Blank	Total/NA	Water	350.1	
Analysis Batch: 116006	6				
Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batc
660-43902-C-6 MS	Matrix Spike	Total/NA	Water	350.1	-
660-43902-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	350.1	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	350.1	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-43966-2 MS	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-43966-2 MSD	TH-58 WACS# 1571	Total/NA	Water	350.1	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	350.1	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	350.1	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	350,1	
660-43966-6	Duplicate 43966	Total/NA	Water	350.1	
LCS 660-116006/4	Lab Control Sample	Total/NA	Water	350.1	
MB 660-116006/3	Method Blank	Total/NA	Water	350.1	
Analysis Batch: 116016	6				
 Lab Sampie ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
660-43914-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	SM 2540C	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	SM 2540C	
LCS 660-116016/2	Lab Control Sample	Tctal/NA	Water	SM 2540C	
MB 660-116016/1	Method Blank	Tctal/NA	Water	SM 2540C	
Analysis Batch: 116079	9				
Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batc
660-43961-E-1 DU	Duplicate	Total/NA	Water	SM 2540C	
660-43966-1	TH-73 WACS# 27754				
		Total/NA	Water	SM 2540C	
660-43966-2		Total/NA Total/NA	Water Water	SM 2540C SM 2540C	
	TH-58 WACS# 1571	Total/NA	Water	SM 2540C	
660-43966-3	TH-58 WACS# 1571 TH-30 WACS# 1065	Total/NA Total/NA	Water Water	SM 2540C SM 2540C	
660-43966-3 660-43966-4	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570	Total/NA Total/NA Total/NA	Water Water Water	SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862	Total/NA Total/NA Total/NA Total/NA	Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966	Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-2	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-2 660-43986-3	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-2 660-43986-3 660-43986-4	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43986-1 660-43986-2 660-43986-3 660-43986-4 LCS 660-116079/2	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Dupticate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822 Lab Control Sample	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-2 660-43986-3 660-43986-4 LCS 660-116079/2 MB 660-116079/1	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822 Lab Control Sample Method Blank	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-3 660-43986-4 LCS 660-116079/2 MB 660-116079/1	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Dupticate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822 Lab Control Sample Method Blank	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C	
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-3 660-43986-4 LCS 660-116079/2 MB 660-116079/1 Analysis Batch: 116185	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822 Lab Control Sample Method Blank 5 Client Sample ID	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C	Prep Batc
660-43966-3 660-43966-4 660-43966-5 660-43966-6 660-43986-1 660-43986-3 660-43986-4 LCS 660-116079/1 Analysis Batch: 116185 Lab Sample ID 660-43986-1	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822 Lab Control Sample Method Blank 5 Client Sample ID TH-72 WACS# 27753	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C	Prep Batc
660-43966-3 660-43966-4 660-43966-6 660-43986-1 660-43986-2 660-43986-3 660-43986-4 LCS 660-116079/2 MB 660-116079/1 Analysis Batch: 116185	TH-58 WACS# 1571 TH-30 WACS# 1065 TH-57 WACS# 1570 TH-28A WACS# 19862 Duplicate 43966 TH-72 WACS# 27753 TH-42 WACS# 823 TH-40 WACS# 27752 TH-19 WACS# 822 Lab Control Sample Method Blank 5 Client Sample ID	Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA Total/NA	Water Water Water Water Water Water Water Water Water Water Water Water Water	SM 2540C SM 2540C	Prep Batc

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

General	Chemistry	/ (Continu	ied)
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į	Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
	660-43986-3	TH-40 WACS# 27752	Total/NA	Water	300.0	
í	660-43986-4	TH-19 WACS# 822	Total/NA	Water	300.0	
	LCS 660-116185/4	Lab Control Sample	Total/NA	Water	300.0	
	MB 660-116185/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 116328

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43966-1	TH-73 WACS# 27754	Tctal/NA	Water	300.0	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	300.0	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	300.0	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	300,0	
660-43966-4 MS	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-43966-4 MSD	TH-57 WACS# 1570	Total/NA	Water	300.0	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	300.0	
LCS 660-116328/4	Lab Control Sample	Total/NA	Water	300.0	
MB 660-116328/3	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 116433

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43986-1	TH-72 WACS# 27753	Total/NA	Water	350.1	
660-43986-2	TH-42 WACS# 823	Total/NA	Water	350.1	
660-43986-3	TH-40 WACS# 27752	Total/NA	Water	350.1	
660-43986-4	TH-19 WACS# 822	Total/NA	Water	350.1	
660-44012-D-11 MS	Matrix Spike	Total/NA	Water	350.1	
660-44012-D-11 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
LCS 660-116433/14	Lab Control Sample	Total/NA	Water	350.1	
MB 660-116433/13	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 116472

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-43937-1 MS	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-43937-1 MSD	SUP 1 WACS# 27755	Total/NA	Water	300.0	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	300.0	
660-43966-6	Duplicate 43966	Total/NA	Water	300.0	
LCS 660-116472/11	Lab Control Sample	Total/NA	Water	300,0	
MB 660-116472/10	Method Blank	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 116108

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
660-43937-1	SUP 1 WACS# 27755	Total/NA	Water	Field Sampling	
660-43937-2	SUP 2 WACS# 27756	Total/NA	Water	Field Sampling	
660-43966-1	TH-73 WACS# 27754	Total/NA	Water	Field Sampling	
660-43966-2	TH-58 WACS# 1571	Total/NA	Water	Field Sampling	
660-43966-3	TH-30 WACS# 1065	Total/NA	Water	Field Sampling	
660-43966-4	TH-57 WACS# 1570	Total/NA	Water	Field Sampling	
660-43966-5	TH-28A WACS# 19862	Total/NA	Water	Field Sampling	
660-43986-1	TH-72 WACS# 27753	Total/NA	Water	Field Sampling	
660-43986-2	TH-42 WACS# 823	Total/NA	Water	Field Sampling	
660-43986-3	TH-40 WACS# 27752	Total/NA	Water	Field Sampling	

QC Association Summary

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Field Service / M	obile Lab (Continued)				
Analysis Batch: 116	108 (Continued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-43986-4	TH-19 WACS# 822	Total/NA	Water	Field Sampling	



Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Lab Sample ID: 660-43937-1

Matrix: Water

Client Sample ID: SUP 1 WACS# 27755

Date Collected: 10/05/11 13:10 Date Received: 10/05/11 15:00

	Batch	Batch		Dilution	Batch	Prepared		
Prop Typo	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 08:57	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:28	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	116016	10/07/11 14:39	то	TAL TAM
Total/NA	Analysis	300.0		1	116472	10/18/11 13:27	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/05/11 13:10		TAL TAM

Client Sample ID: SUP 2 WACS# 27756

Date Collected: 10/05/11 12:44

Date Received: 10/05/11 15:00

Lab Sample ID: 660-43937-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:01	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:29	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	116016	10/07/11 14:39	то	TAL TAM
Total/NA	Analysis	300.0		1	116472	10/18/11 13:43	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/05/11 12:44		TAL TAM

Client Sample ID: TH-73 WACS# 27754

Date Collected: 10/06/11 10:49

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prop Typo	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:11	GF	TAL TAM
Total/NA	Analysis	350.1		1	116002	10/07/11 11:42	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:41	то	TAL TAM
Total/NA	Analysis	300.0		2	116328	10/14/11 17:23	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 10:49		TAL TAM

Client Sample ID: TH-58 WACS# 1571

Date Collected: 10/06/11 10:21

Date Received: 10/06/11 13:28

Lab	Sam	ple	ID:	660-43966-2	2
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prop Type	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:14	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 11:59	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:41	то	TAL TAM
Total/NA	Analysis	300.0		10	116328	10/14/11 17:39	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 10:21		TAL TAM

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

Client Sample ID: TH-30 WACS# 1065

Date Collected: 10/06/11 09:58 Date Received: 10/06/11 13:28 Lab Sample ID: 660-43966-3

TestAmerica Job ID: 660-43937-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzod	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:17	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:03	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:42	то	TAL TAM
Total/NA	Analysis	300.0		2	116328	10/14/11 17:55	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 09:58		TAL TAM

Client Sample ID: TH-57 WACS# 1570

Date Collected: 10/06/11 11:27

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:21	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:04	TO	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:42	TO	TAL TAM
Total/NA	Analysis	300.0		1	116328	10/14/11 18:10	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 11:27		TAL TAM

Client Sample ID: TH-28A WACS# 19862

Date Collected: 10/06/11 11:09

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-5

Matrix: Water

İ	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:24	GF	TAL TAM
Tctal/NA	Analysis	350.1		1	116006	10/07/11 12:05	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:43	то	TAL TAM
Total/NA	Analysis	300.0		1	116328	10/14/11 18:26	TS	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/06/11 11:09		TAL TAM

Client Sample ID: Duplicate 43966

Date Collected: 10/06/11 00:00

Date Received: 10/06/11 13:28

Lab Sample ID: 660-43966-6

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116189	10/13/11 09:30	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116241	10/14/11 09:28	GF	TAL TAM
Total/NA	Analysis	350.1		1	116006	10/07/11 12:06	то	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:43	то	TAL TAM
Tctal/NA	Analysis	300.0		10	116472	10/18/11 13:59	TS	TAL TAM

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

Lab Sample ID: 660-43986-1

Matrix: Water

Client Sample ID: TH-72 WACS# 27753

Date Collected: 10/07/11 11:44 Date Received: 10/07/11 13:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 09:50	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:44	то	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 14:34	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:30	то	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 11:44		TAL TAM

Client Sample ID: TH-42 WACS# 823

Date Collected: 10/07/11 10:55

Date Received: 10/07/11 13:40

Lab Sample ID: 660-43986-2

Matrix: Water

d
tod Analyst Lab
9:06 SR TAL TAM

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 10:03	GF	TAL TAM
Total/NA	Analysis	SM 2540C		1	116079	10/10/11 14:44	то	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 14:50	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:31	то	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 10:55		TAL TAM

Client Sample ID: TH-40 WACS# 27752

Date Collected: 10/07/11 09:29

Date Received: 10/07/11 13:40

Lab Sample ID: 660-43986-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Type	Method	Run	Factor	Number	Or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09 06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 10:06	GF	TAL TAM
Tctal/NA	Analysis	SM 2540C		1	116079	10/10/11 14:45	то	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 15:06	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:32	то	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 09:29		TAL TAM

Client Sample ID: TH-19 WACS# 822

Date Collected: 10/07/11 10:05

Date Received: 10/07/11 13:40

Lab Sample ID: 660-43986-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	Or Analyzod	Analyst	Lab
Total Recoverable	Prep	3005A			116147	10/12/11 09:06	SR	TAL TAM
Total Recoverable	Analysis	6010B		1	116190	10/13/11 10:10	GF	TAL TAM
Tctal/NA	Analysis	SM 2540C		1	116079	10/10/11 14:45	TO	TAL TAM
Total/NA	Analysis	300.0		1	116185	10/12/11 15:21	TS	TAL TAM
Total/NA	Analysis	350.1		1	116433	10/18/11 14:34	TO	TAL TAM
Total/NA	Analysis	Field Sampling		1	116108	10/07/11 10:05		TAL TAM

Client: Hillsborough County Public Utilities Dep

Project/Site: Southeast Landfill

TestAmerica Job ID: 660-43937-1

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: 660-43937-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	Stale 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: 660-43937-1

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	Sclids, 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: 660-43937-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-43937-1	SUP 1 WACS# 27755	Water	10/05/11 13:10	10/05/11 15:00
660-43937-2	SUP 2 WACS# 27756	Water	10/05/11 12:44	10/05/11 15:00
660-43966-1	TH-73 WACS# 27754	Water	10/06/11 10:49	10/06/11 13:28
660-43966-2	TH-58 WACS# 1571	Water	10/06/11 10:21	10/06/11 13:28
660-43966-3	TH-30 WACS# 1065	Water	10/06/11 09:58	10/06/11 13:28
660-43966-4	TH-57 WACS# 1570	Water	10/06/11 11:27	10/06/11 13:28
660-43966-5	TH-28A WACS# 19862	Water	10/06/11 11:09	10/06/11 13:28
660-43966-6	Duplicate 43966	Water	10/06/11 00:00	10/06/11 13:28
660-43986-1	TH-72 WACS# 27753	Water	10/07/11 11:44	10/07/11 13:40
660-43986-2	TH-42 WACS# 823	Water	10/07/11 10:55	10/07/11 13:40
660-43986-3	TH-40 WACS# 27752	Water	10/07/11 09:29	10/07/11 13:40
660-43986-4	TH-19 WACS# 822	Water	10/07/11 10:05	10/07/11 13:40



PREC	CLEANED SAMPLE CONTAINERS:					DATE TIME			
RELINQUISHED BY: REP. OF CONTRACT LAB.									
ACCE	OPTED BY: BU		REP. OF	F SOLID W	ASTE DEP	r.929-11 2:43			
LOCA	ATION: SUP 1 WACS# 27755		SAMPLE N	MATRIX: W	ATER OT	HER MATRIX:			
	SONAL ENGAGED IN SAMPLE CO								
WELL VOLUME TO PURGE: 15 MIN: PURGE STARTED: DATE/D-5-// TIME 12:5(ACTUAL PURGE TIME: 19 MIN: FIELD PARAMETERS:									
		FIELD	PARAMET	ERS:					
	BY TIME TE		COND	PH) DO	TURB			
		<u>.45 </u>	322	7.46	1.19	0.0 =			
	B JC 1:08 24	46	322	7.47	1.18	0.0			
	1 70 1:10 24.	<u>45 </u>	322	<u> 7.47</u>	1118	0,0			
SAMPLE CONTAINERS									
QTY	CONTAINER DESCRIPTION	QTY	CONTA	LINER DESCR	RIPTION	PRESERVED			
	40 ml VIAL			40 ml VIA					
	125 ml. PLASTIC			5 ml. PLAS					
	123 ml GLASS	 		125 ml GLA					
	250 ml. PLASTIC 250 ml. GLASS	7		00 ml. PLAS 250 ml. GLA					
	500 ml. PLASTIC	-		00 ml. PLAS					
	500 ml. GLASS			00 ml. GLA		· · · · · · · · · · · · · · · · · · ·			
	LITER PLASTIC			ITER PLAST					
	LITER GLASS			LITER GLAS					
l	BACTERIAL			BACTERIAI	4				
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 10-5-1/1:10									
	~		IS REQUES						
AMMO	NIA-NITROGEN CHLORIDE SOD	IUM TI	DS Iron I	lrsenic					
PRES	SERVED SAMPLES PH < 2.0 🔀	125	SAMPLE	STORAGE:	COOLER	& ICE TO 4.0 c			
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 10-5-11 3:00									
COMMENT'S: uogdouso									

2.5c CU-07
Page 38 of 52

PRECLEANED SAMPLE CONTAINERS:				DATE TIME					
RELINQUISHED BY:		REP. OF CONTRAC	CT LAB.	1					
ACCEPTED BY:		REP. OF SOLID W	WASTE DEPT	. <u>9-29-11 2:4</u> 3					
LOCATION: SUP 2 WACS# 27756 PERSONAL ENGAGED IN SAMPLE COL		SAMPLE MATRIX: V		ER MATRIX:					
WELL VOLUME TO PURGE: 15 MIN ACTUAL PURGE TIME: 19 MIN		PURGE STARTED:	DATE /0-5	1/ TIME 12:25					
FIELD PARAMETERS:									
BY TIME TEM		COND PH	I DO	TURB					
12 12:40 25.6		332 7.59	0.53	0.0 =					
17 5 12:42 25.8		333 7.59	0.45	0.3					
D JU 12:44 25.	841	331 7.59	0.45	0.0					
SAMPLE CONTAINERS									
QTY CONTAINER DESCRIPTION	QTY	CONTAINER DESC	RIPTION	PRESERVED					
40 ml VIAI,		40 ml -VII	AL.						
/ 125 ml. PLASTIC		125 ml. PLA							
125 ml GLASS	ļ	125 ml GL/							
250 ml. PLASTIC	7_	250 ml. PLA							
250 ml. GLASS	 	250 ml. GL							
500 ml. PLASTIC 500 ml. GLASS	 	500 ml. PLA 500 ml. GL							
LITER PLASTIC		LITER PLAS							
LITER GLASS	 	LITER GLA							
BACTERIAL	1	BACTERIA							
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 10-5-1/12:44									
<u>A</u>	ALYSI	S REQUESTED:							
AMMONIA-NITROGEN CHLORIDE SODI	TD MU	S Iron Arsenic							
PRESERVED SAMPLES PH < 2.0 45 SAMPLE STORAGE: COOLER & ICE TO 4.0 c									
ABOVE LISTED SAMPLES: RELINQUISHED BY: REP. OF SOLID WASTE DEPT. 0-5-10 3:00 REP. OF CONTRACT LAB. 10-5-10 3:00									
COMMENT'S: 40058									

2.5° CU-07

660-43966

PREC	LEANED SAMPI	LE CONTAIN	NERS:					DATE TI	ME	
RELI	NQUISHED BY:	·			REP. O	F CONTRAC	T LAB.			
ACCE	PTED BY:	A.			REP. O	F SOLID W	ASTE DEPT	·92911 12:	43	
LOCA	TION: TH-73	WACS#2775	54		SAMPLE	MATRIX: W	ATER OTH	ER MATRIX:		
	ONAL ENGAGE									
TOTA DEPT LENG	WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 43.40 Ft. PURGE STARTED: O.20 GPM. DEPTH TO WATER: 12.34 Ft. VOLUME TO PURGE: 1.97 Gal. PURGE ENDED: ACT. VOL. PURGED: 33.79 FIELD PARAMETERS:									
			<u> </u>	TEPD	PARAME.	TERS:				
	BY	TIME	TEM		COND	PH	l DO	TURB		
	15 V C	10:45	25.5		349	5.29	1.84	11.4 =		
		10:47	25.		344 345	5.23	<u>। . इ.स्</u> । . इ.न	120		
	15 00	10:47	!	T 0	342	1 3.20	<u> </u>	100		
SAMPLE CONTAINERS										
QTY	CONTAINER	R DESCRIPTION	N	QTY	CONI	AINER DESCR	RIPTION	PRESERVED		
	40	ml VIAL		 		40 ml VIA	Τ,	 		
		. PLASTIC			† · · · · · · · · · · · · · · · · · · ·	25 ml. PLAS				
		ml GLASS		 	_	125 ml GLA:				
	250 ml	. PLASTIC		2	2_ 250 ml. PLASTIC					
		nl. GLASS			250 ml. GLASS					
		. PLASTIC			[5	00 ml. PLAS	TIC			
,		nl. GLASS			j	500 ml. GLA				
		PLASTIC			LITER PLASTIC					
		ER GLASS				LITER GLAS	SS			
	BAC	CTERIAL								
TOTAL No. OF SAMPLES COLLECTED: Colors and Sheens ANALYSIS REQUESTED: AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic										
PRESERVED SAMPLES PH < 2.0 455 SAMPLE STORAGE: COOLER & ICE TO 4.0 c										
RELI	ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: DATE TIME PEP. OF SOLID WASTE DEPT. TOTAL TIME TOTAL 1:28									
COMM	ENT`S:	10#0	050				- 4.	4°C CU	67 _	
_										

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PRECLEANED SAM	IPLE CONTAI	NERS:					DATE TIME		
RELINQUISHED H	BY:			REP.	OF CONTRACT	r LAB.			
ACCEPTED BY:	A		<u> </u>	BEP.	OF SOLID WA	ASTE DEPT	. 9-29.11 2:43		
LOCATION: TH-	58 WACS# 15	71		SAMPLE	MATRIX: W	ATER OTHE	ER MATRIX:		
PERSONAL ENGAG	GED IN SAMP	LE COLI	LECTI	ON R	A.Balloon	₽ .7C ¥	<u> </u>		
WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 32.92 Ft. PURGE STARTED: O-6./1 IO DEPTH TO WATER: 27.72 Ft. PURGE RATE: O.20 GP LENGTH OF WATER COL: 5.20 Ft. VOLUME TO PURGE: O.83 Gal. PURGE ENDED: O-6-/1 IO: ACT. VOL. PURGED: I.4 GA Draw Down: 76-17									
						. 50	I mint		
BY ST	TIME				PH 5.75	DO	TURB		
£ 5	7 10:19	26.0	2	1417	5.73	1.49	7.3		
4	C 10:21	1 24,0		1414	5.72	1.47	1 5.2		
SAMPLE CONTAINERS									
QTY CONTAI	NER DESCRIPTI		QTY		TAINER DESCR	IPTION	PRESERVED		
	10 ml VIAL		-						
1	ml. PLASTIC		 		40 ml VIA	, and the second			
1:	25 ml GLASS				125 ml GLA				
	ml. PLASTIC			250 ml. PLASTIC					
	0 ml. GLASS			250 ml. GLASS 500 ml. PLASTIC					
	ml. PLASTIC O ml. GLASS		 		500 ml. GLA				
	TER PLASTIC				LITER PLAST	'IC			
	ITER GLASS			 	LITER GLAS				
	BACTERIAL				BACTERIAL				
4 TOTAL	No. OF SAM	PLES C	OLLEC	TED :			COLLECTED DATE TIME		
	ANALYSIS REQUESTED:								
AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic									
PRESERVED SAM	PLES PH < 2	2.0 7/	55	SAMPI	E STORAGE:	COOLER	& ICE TO 4.0 c		
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: DATE TIME PROPRIED BY: DATE TIME PROPRIED BY: REP. OF SOLID WASTE DEPT. PROPRIED BY: DATE TIME PROPRIED BY: DATE TIME									
COMMENT`S:	UOHOO	550							

PRECLEANED SAMPLE CONTAINERS:					DATE TIME		
RELINQUISHED BY:	F	REP. O	CONTRACT	LAB.			
ACCEPTED BY:	F	REP. O	F SOLID WA	ASTE DEPT.	9-29-11 2:43		
LOCATION: TH-30 WACS# 1065 PERSONAL ENGAGED IN SAMPLE COL	SA LECTION	MPLE I	ATRIX: W	TER OTHE	R MATRIX:		
WELL DIAMETER: 2.00 INCH: TOTAL DEPTH OF WELL: 46.19 DEPTH TO WATER: 23.74 LENGTH OF WATER COL: 22.23 VOLUME TO PURGE: 3.56	DATE TIME 10-6-11 9:40 0.25 GPM. DATE TIME 2-6-119:58 4-5 GAL. 24.00						
1	FIELD P	ARAMET	ERS:				
BY TIME TEM TO VC! 9:54 23.4 TO 9:56 23.4 TO 9:58 23.4	14 Z	COND 229 230 231	PH 1 4.66 1 4.64 1 4.63	DO	TURB = 3.7 = 3.4		
	SAMPLE				-		
QTY CONTAINER DESCRIPTION	QTY	CONT	AINER DESCR		PRESERVED		
40 ml VIAL			40 ml VIAI 25 ml. PLAS				
/ 125 ml. PLASTIC 125 ml GLASS	 		125 ml GLAS				
250 ml. PLASTIC	2	2	50 ml. PLAS				
250 ml. GLASS			250 ml. GLA 00 ml. PLAS				
500 ml. PLASTIC 500 ml. GLASS			500 ml. GLA				
LITER PLASTIC	1		LITER PLAST	IC			
LITER GLASS			LITER GLAS				
BACTERIAL			BACTERIAL				
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 5 - C - 9:58							
ANALYSIS REQUESTED:							
AMMONIA-NITROGEN CHLORIDE	SODIU	M TDS	Iron Arse	nic .			
PRESERVED SAMPLES PH < 2.0 155 SAMPLE STORAGE: COOLER & ICE TO 4.0 c							
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. D-G-N 1:28 REP. OF CONTRACT LAB. D-G-N 1:28							
COMMENT'S: 400 HOZ	50	Н	25 0 der	1-11-1			

PREC	LEANED SAMPLE	CONTAIN	ERS:					DATE TIME		
RELI	NQUISHED BY:				_ REP. (F CONTRACT	LAB.			
ACCE	PTED BY:	AZL	1		REP. (F SOLID WA	ASTE DEPT	.9-79-11 2:43		
	TION: TH-57 WOONAL ENGAGED							ER MATRIX:		
WELL TOTA DEPT LENG VOLU	DATE TIME 5-G-1/ 11:18 0.25 GPM. DATE TIME 5-G-// //;27 2.25 GAL. 19.58									
FIELD PARAMETERS:										
	BY	TIME	TEM		COND		DO	TURB		
	13 Ju	11:23	24.	18	147	1 5.03	0.28	2. =		
	A ITC	11:25	24.	79	145	5.03	6.27	1.7		
	A1 176	11:27	24.		144	1506	0.21	1 2.1		
	SAMPLE CONTAINERS									
QTY	CONTAINER I	DESCRIPTION	M	QTY	CON	TAINER DESCR	PRESERVED			
	4C ml	VIAL				40 ml VIAI				
1		PLASTIC				125 ml. PLAS 125 ml GLAS				
		GLASS								
		PLASTIC		2		250 ml. PLAS				
		. GLASS				250 ml. GLA				
		PLASTIC		ļ		500 ml. PLAS	<u></u>			
		. GLASS				50C ml. GLA				
		PLASTIC				LITER PLAST		 		
		GLASS				LITER GLAS		 		
<u> </u>	BACT	ERIAL		<u> </u>		BACTERIAL				
	TOTAL No.	OF SAM	PLES C	OLLE	CTED :			COLLECTED DATE TIME O-6-1/11:27		
			AN	ALYS	SIS REQU	ESTED:				
AM	MONIA-NITROGEN	CHLORI	DE SOD	IUM	TDS Iro	n Arsenic				
PRES	SERVED SAMPLES	S PH < 2	.0 Y	5	SAMPL	E STORAGE:	COOLER	& ICE TO 4.0 c		
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. 128 REP. OF CONTRACT LAB. REP. OF CONTRACT LAB.										
COMMENT'S: WO # 0050										
					- 1 ⁻					

PRECLEANED SAMPLE CONTAINERS:				DATE TIME				
RELINQUISHED BY:		REP. OF CONTRACT	LA3.					
ACCEPTED BY:		REP. OF SOLID WAS	TE DEPT.	9-29-11 2:43				
LOCATION: TH-28A WACS# 19862 PERSONAL ENGAGED IN SAMPLE COL	LECTI	SAMPLE MATRIX: WAT ON <u>C.A.Balloon</u> C	ER OTHE	R MATRIX:				
WELL DIAMETER: 2.0 INCH: TOTAL DEPTH OF WELL: 34.30 DEPTH TO WATER: LENGTH OF WATER COL: 4.19 VOLUME TO PURGE: 0.79	Ft.	PURGE RATE:	: /6	DATE TIME 0-6-// //:00 0.20 GPM. DATE TIME -6-// //:09 1.8 GAL. 28.64				
Ī	FIELD	PARAMETERS:						
	P eZ GG	COND PH 197 5.22 194 5.20 195 5.17	DO 1.31 1.28 1.24	TURB = 4.1 = 3.4				
	SAMPLI	E CONTAINERS						
QTY CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIP	TION	PRESERVED				
40 ml VIAL		40 ml VIAL						
125 ml. PLASTIC		125 ml. PLASTI						
125 ml GLASS 250 ml. PLASTIC		125 ml GLASS 250 ml. PLASTI						
250 ml. GLASS	 	250 ml. GLASS						
500 ml. PLASTIC	 	500 ml. PLASTI	c l					
500 ml. GLASS	 	500 ml. GLASS						
LITER PLASTIC		LITER PLASTIC						
LITER GLASS		LITER GLASS						
BACTERIAL	<u> </u>	BACTERIAL						
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME O								
AMMONIA-NITROGEN CHLORIDE SOD	I MUI	DS Iron Arsenic						
PRESERVED SAMPLES PH < 2.0 4	PRESERVED SAMPLES PH < 2.0 4.0 c							
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: MATE TIME REP. OF SOLID WASTE DEPT. 1-28 1-6-11 1-28 ACCEPTED BY:								
COMMENT'S: WOHEDSD				181				

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

PRECLEANED SAMPLE CONTAINERS:			DATE TIME
RELINQUISHED BY:	REI	P. OF CONTRACT LAB.	
ACCEPTED BY:	RE	OF SOLID WASTE DEP	T. 9-29-11 2:43
PERSONAL ENGAGED IN SAMPLE CO	LLECTION	ETERS: N/A	
	SAMPLE CO	NTAINERS	
OTY CONTAINER DESCRIPTION	QTY	CONTAINER DESCRIPTION	PRESERVED
40 ml VIAL	- - - - - - - - - - 	40 ml VIAL	
125 ml. PLASTIC		125 ml. PLASTIC	
125 ml GLASS		125 ml GLASS	
250 ml. PLASTIC	7	250 ml. PLASTIC	
250 ml. GLASS		250 ml. GLASS	
		500 ml. PLASTIC	
500 ml. GLASS		500 ml. GLASS	
LITER PLASTIC		LITER PLASTIC	
LITER GLASS		LITER GLASS	
BACTERIAL		BACTERIAL	
_	nalysis r	equested:	COLLECTED DATE TIME
AMMONIA-NITROGEN CHLORIDE SO			
PRESERVED SAMPLES PH < 2.0	4/55 SAI	MPLE STORAGE: COOLER	& ICE TO 4.0 c
ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY:	Mc white	P. OF SOLID WASTE DEP P. OF CONTRACT LAB.	DATE TIME Tyb - 6-1/1 1:28 10 - 6-1/1 1:28
COMMENT'S: WO#035	6		

PREC	LEANED	SAMPLI	E CONTAIN	IERS:		660	- 43	986	•	DATE	TIME
RELI	NQUISH:	ED BY:		···		REP.	OF CON	TRAC'	T LAB.		
ACCE	PTED B	Υ:	130			REP.	OF SCL	ID W.	ASTE DEPI	. 9-29-11	<u>Z:43</u>
LOCA PERS	TION: _' ONAL E	TH-72 I	WACS# 277 IN SAMPI	753 E COL	LECTI	SAMPLE ON <u>E</u>	MATRI A.Bal	X: <u>W</u> .loon	ATER OTH	IER MATRIX	:
WELL DIAMETER: 2 INCH: TOTAL DEPTH OF WELL: 190.00 Ft. PURGE STARTED: 6-7 // 11:10 DEPTH TO WATER: 60.90 Ft. PURGE RATE: 0.65 GPM. LENGTH OF WATER COL: 85.00 Ft. VOLUME TO PURGE: 6al. PURGE ENDED: ACT. VOL. PURGED: 18:70 GAL. Draw Down: FIELD PARAMETERS:									1:10 GPM. TIME 7:44		
				<u> </u>	TELD	PARAME	TERS:				
	<u> </u>	<u>ا BY</u>	TIME	TEM		COND		H	DO DO	TURB	
	75		11:40	23.1 23.1		470	7.3 7.3		1.42	<u>/_6 =</u> /. 0	
	77_	<u>55</u>	11:44	23.1		7/3	1 7.		1.69	1	
	M-1-				<u> </u>				1 2 4 7	1.7.7	
				5	SAMPL	E CONTA	INERS				
OTY	CO	NTAINER	DESCRIPTIO		OTY		TAINER	DESCR	RIPTION	PRESERVED	7
			l VIAL					l VIA			_
			PLASTIC				125 ml.				-
			1 GLASS			 	125 m				
			PLASTIC		1	250 ml. PLASTIC					
			GLASS			250 ml. GLASS 500 ml. PLASTIC					
			PLASTIC . GLASS		1		500 ml.				_
			PLASTIC		ļ	 	LITER				-
		LITER	GLASS				LITER	GLAS	SS		
		BACT	TERIAL				BACT	ERIAL			
Colo	TO		. OF SAME	PLES C	OLLEC	CTED:				COLLE DATE 18 <u>- 7 - </u>	
				AN	ALYS]	IS REQU	ESTED:				
<u> 2</u>	AINOMM	-NITRO	GEN CHLOR	RIDE S	ODIUN	4 TDS I	ron Ar	seni	<u>.c</u>		
PRES	ERVED	SAMPLE	S PH < 2.	· 0 7	135	SAMPL	E STOR	AGE:	COOLER	& ICE TO	4.0 c
RELI	ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: WALK MCKNULTY REP. OF CONTRACT LAB. DATE TIME REP. OF CONTRACT LAB. 7-7-11:40										
COMM	ENT`S:	w	#00	50					2.5	c CU.	07

PREC	LEANED SAMPI	LE CONTAIN	NERS:		66	0-43986	DATE TIME				
RELI	NQUISHED BY:	:		··	• -	F CONTRACT	r LAB.				
ACCE	PTED BY:	_A	<u></u>		REP. C	F SOLID W	ASTE DEPT	.9-29-11 12:43			
LOCA	TION: TH-42	WACS# 823	3		SAMPLE	MATRIX: W	ATER OTH	ER MATRIX:			
PERS	ONAL ENGAGE	O IN SAMPI	LE COL	LECTI	ON LS-	A.Balloon	D TE				
WELL	WELL DIAMETER: 2.0 INCH: DATE TIME										
TOTAL DEPTH OF WELL: 164.00 Ft. PURGE STARTED: 10-7-1110:25 DEPTH TO WATER: 72.00 Ft. PURGE RATE: 0.55 GPM.											
DEPT	H TO WATER:	$COT \cdot \frac{7}{2}$	2,00	rt.		PURGE RATI	E:	O.55 GPM. DATE TIME			
NOLII	TH OF WATER ME TO PURGE:		4 72	Gal		PURGE END	ED.				
40110	ME TO TOROE.	·		Car.	.	ACT. VOL.	PURGED:	10-7-1/10:55 14.5 GAL.			
						Draw Down	:	90.26			
			<u>I</u>	FIELD	PARAME	TERS:					
	BY	TIME	I TEM	1P I	COND	PH	l DO	TURB			
	AB JC	10:51	23.9	70		1 7.23	0.29	11.0 =			
	13 JL	10:53	23.9		421	17.23	10.29	1 11.5			
	13 76	10:55	23.9	3	421	17.26	0.25	11.5			
SAMPLE CONTAINERS											
QTY	CONTAINER	R DESCRIPTION		OTY	_	TAINER DESCR	IPTION	PRESERVED			
		ml VIAL			-	40 ml VIAI					
		. PLASTIC			 	125 ml. PLAS					
	125	ml GLASS		•		125 ml GLAS					
		. PLASTIC		2		250 ml. PLAS					
 _		al. GLASS		ļ	25C ml. GLASS 500 ml. PLASTIC						
		al. GLASS			 	500 ml. GLA	 				
		R PLASTIC		1		LITER PLAST					
		ER GLASS				LITER GLAS					
L	ВАС	CTERIAL			<u> </u>	BACTERIAL	<u> </u>				
4	/ TOTAL No	o. OF SAM	PLES C	OLLE	CTED:						
		. 01 0111		· • • • • • • • • • • • • • • • • • • •	··			COLLECTED			
								DATE TIME			
								10-7-11/10:55			
			AN	ALYS	IS REQUI	ESTED:		•			
AMM	AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic Dissolved Sodium										
Dis	Dissolved Iron Dissolved Arsenic										
PRESERVED SAMPLES PH < 2.0 7/ES SAMPLE STORAGE: COOLER & ICE TO 4.0 c											
RELI	ABOVE LISTED SAMPLES: RELINQUISHED BY: ACCEPTED BY: ACCEPTED BY: ACCEPTED BY: ACCEPTED BY: ACCEPTED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. ACCEPTED BY: ACCE										
COMM	IENT`S:	NOHO	050	>		• •	***				

<u>13</u>

PREC	LEANED SAMPI	LE CONTAI	NERS:		660	1-43986	•	DATE TIME		
RELI	NQUISHED BY	·		· · <u>·</u>	REP. O	CONTRAC	T LAB.			
ACCE	PTED BY:	130	·		REP. O	SOLID W	ASTE DEPT	. <u>9-29-11 2:4</u> 3		
LOCA PERS	TH-40 TION: 2-10 S ONAL ENGAGE	WACS# 27	752 LE COL	LECT	SAMPLE N	MATRIX: W.	ATER OTH	ER MATRIX:		
WELL DIAMETER: 2.0 INCH: /65.40 TOTAL DEPTH OF WELL: 42.50 DEPTH TO WATER: 92.80 LENGTH OF WATER COL: 73.1 VOLUME TO PURGE: 11.70 FIELD PARAMETERS: DATE TIME 1.00 GPM. 1.00 G										
	BY	TIME	TEM		COND	PH	I DO	TURB		
	RI UZ	9:25	23.5		759	7.57	1,46	<u> </u>		
	7) JC	9:27	23.5	20	2 95	7.57	1 .54	1 1. 3		
	10-Ju	9:29	73.	<u> </u>	291	1.38	<u> </u>	1 18		
SAMPLE CONTAINERS										
QTY	CONTAINE	R DESCRIPTI	ON	QTY	CONT	AINER DESCR	IPTION	PRESERVED		
		ml VIAL				40 ml VIA				
		L. PLASTIC				25 ml. PLAS				
		ml GLASS			125 ml GLASS					
		nl. GLASS	-	12.	250 ml. PLASTIC 250 ml. GLASS					
		L. PLASTIC			500 ml. PLASTIC					
-	500 r	nl. GLASS				500 ml. GLA				
		R PLASTIC				LITER PLAST	'IC			
		ER GLASS				LITER GLAS				
	BAC	TERIAL			<u>.i</u>	BACTERIAL	<u> </u>			
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME 10-7-4/9:29 ANALYSIS REQUESTED:										
AMM	ONIA-NITROG	EN CHLORT								
	AMMONIA-NITROGEN CHLORIDE SODIUM TDS Iron Arsenic PRESERVED SAMPLES PH < 2.0 SAMPLE STORAGE: COOLER & ICE TO 4.0 c									
RELI	ABOVE LISTED SAMPLES DATE TIME RELINQUISHED BY: REP. OF SOLID WASTE DEPT 10 7-1/1 1:48 ACCEPTED BY: Challed Rep. OF CONTRACT LAB. 10-2-1/1 1:40									
COMM	ENT'S: V	10/20	05 <u>0</u>							
										
										

PRECLEANED SAMPLE CONTAINERS:		660.43986	DATE TIME					
RELINQUISHED BY:		REP. OF CONTRACT LAB.						
ACCEPTED BY:		REP. OF SOLID WASTE DEPT.	7-29-11 2:43					
LOCATION: TH-40 WACS# 822 PERSONAL ENGAGED IN SAMPLE COLI		SAMPLE MATRIX: WATER OTHER						
WELL DIAMETER: 2.0 INCH: /53.40 TOTAL DEPTH OF WELL: 165.90 DEPTH TO WATER: 95.72 LENGTH OF WATER COL: 57.88 VOLUME TO PURGE: 9.24	Ft. Ft.	PURGE STARTED:) PURGE RATE:	DATE TIME 7-7-/) 9:52 1.03 GPM. DATE TIME -7-// 10:05 13 GAL. 95.85					
FIELD PARAMETERS:								
79	5	335 7.32 6.47	TURB 0.6 = 0.9 0.7					
QTY CONTAINER DESCRIPTION	QTY		PRESERVED					
40 ml VIAL		40 ml VIAL						
125 ml. PLASTIC 125 ml GLASS		125 ml. PLASTIC 125 ml GLASS						
250 ml. PLASTIC	乙	250 ml. PLASTIC						
250 ml. GLASS 500 ml. PLASTIC		250 ml. GLASS 500 ml. PLASTIC						
500 ml. GLASS		500 ml. GLASS						
LITER PLASTIC		LITER PLASTIC						
LITER GLASS BACTERIAL		LITER GLASS BACTERIAL						
TOTAL No. OF SAMPLES COLLECTED: COLLECTED DATE TIME D-7-1/1 10.05								
ANALYSIS REQUESTED:								
AMMONIA-NITROGEN CHLORIDE SOD	IUM I	IDS Iron Arsenic						
PRESERVED SAMPLES PH < 2.0 45 SAMPLE STORAGE: CCOLER & ICE TO 4.0 c								
ABOVE LISTED SAMPLES RELINQUISHED BY: ACCEPTED BY: REP. OF SOLID WASTE DEPT. REP. OF CONTRACT LAB. DATE TIME REP. OF CONTRACT LAB.								
COMMENT'S: WOHLOOSE								

Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-43937-1

Login Number: 43937

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 packground	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	2.5 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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and he 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	
/OA sample vials do not have headspace or bubble is <6mm (1/4") in liameter.	N/A	
fultiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep Job Number: 660-43937-1

Login Number: 43966 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	4.4 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	



Login Sample Receipt Checklist

Client: Hillsborough County Public Utilities Dep

Job Number: 660-43937-1

Login Number: 43986

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	2.5c 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	

