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June 26, 2014

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

RE: Southeast County Landfill Laboratory Analytical Results Initial Assessment Monitoring Plan Report No. 45 – May 2014

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the May 2014 sampling event conducted as part of the continuation of the Initial Assessment Monitoring Plan (IAMP). The IAMP was developed to address the potential impacts to groundwater from the sinkhole on the edge of Phase VI at the Southeast County Landfill (SCLF), which was discovered on December 14, 2010.

As part of the agreement between the County and Florida Department of Environmental Protection Southwest District Office (Department), three (3) upper Floridan/Limestone aquifer monitoring wells, designated as TH-72, TH-76 and TH-77 are sampled on a monthly schedule and three (3) surficial aquifer monitoring wells, designated as TH-73, TH-74, and TH-75 are sampled on a quarterly schedule. Representative samples were collected from each of these six (6) monitoring wells on May 6-7, 2014 and analyzed for total dissolved solids (TDS), chloride, total ammonia, arsenic, iron, sodium, and five (5) field parameters. Each sample collected was analyzed by our contracted laboratory, Test America, Inc. The following paragraphs summarize the parameter specific results pertinent to the evaluation of potential water quality impacts from the sinkhole at the SCLF.

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Turbidity

Turbidity values in the surficial aquifer monitoring wells TH-73, TH-74, and TH-75 were recorded at 4.01, 3.93, 3.01 Nephelometric Turbidity Units (NTUs). Turbidity values in upper Floridan / Limestone aquifer monitoring wells TH-72, TH-76, and TH-77 were recorded at 1.22, 12.7, and 1.01 NTUs, respectively. No significant changes in turbidity values were noted in the data set from this sampling event.

Conductivity

The conductivity values in TH-73, TH-74, and TH-75 were recorded at 340, 549, and 341 micromhos per centimeter (umhos/cm), and the values in TH-72, TH-76, and TH-77 were recorded at 2247, 427, and 414 umhos/cm, respectively. Monitoring well TH-72 is the closest UFA monitoring well to the sinkhole, and it continues to exhibit groundwater impacts similar to those observed over the past year. The elevated conductivity observed is likely attributable to the waste in the throat and bottom voids of the sinkhole and the large amounts of grout materials and fluids injected into the subsurface as part of the sinkhole stabilization process. Conductivity values in TH-76 and TH-77 are relatively low and appear to be consistent with the unaffected deep wells across the site.

Total Dissolved Solids (TDS)

The TDS in TH-73, TH-74, and TH-75 were all within the Secondary Drinking Water Standard (SDWS) of 500 mg/l. However, TDS in TH-72 was observed at 1,400 mg/l and continues to be above the SDWS. The two down gradient monitoring wells, TH-76 and TH-77 both exhibited a TDS value of 220 mg/l, which is consistent with the water quality historically observed in the unaffected deep wells across the site.

Chloride

Chloride concentrations in the surficial aquifer wells were all below 100 mg/l. A concentration of 590 mg/l was observed in TH-72, which is well above the SDWS of 250 mg/l. Chloride values in TH-76 and TH-77 were observed at 12 mg/l and 9.7 mg/l, which is consistent with the unaffected deep wells across the site.

<u>Iron</u>

Iron concentrations in TH-73, TH-74, and TH-75 were observed at 4, 29, and 6.1 mg/l, respectively. Concentrations in TH-72, TH-76, and TH-77 were observed at 0.64, 0.65, and 0.19 mg/l, respectively. The elevated iron concentrations observed at specific locations across the site are consistent with background water quality, and are likely naturally occurring and/or the result of past strip mining activities at the site.

Sodium

Sodium was observed at a concentration of 230 mg/l in TH-72, which is above the PDWS of 160 mg/l. The elevated sodium value is likely attributable to the waste in the sinkhole and/or the grouting activities. Sodium values in TH-76 and TH-77 were observed at 21 and 17 mg/l, which is consistent with the unaffected deep wells across the site.

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Groundwater Elevations and Direction of Flow

On May 5, 2014, the County collected groundwater and surface water elevation data at sixty-five (65) points across the site, including twenty eight (28) surficial aquifer wells, seven (7) upper Floridan (limestone) aquifer wells, twenty three (23) piezometers, and six (6) surface water sites. No significant changes to the patterns of flow in the surficial aquifer were noted in the data set, and the flow diagram provided is consistent with the observations over the extensive period of record. The elevations observed within the wells closest to the sinkhole indicate that flow patterns continue to be affected in that area, which has not be unexpected. However, the overall direction of flow within the surficial aquifer remains toward the west/northwest across the site.

A contour diagram of the upper Floridan / Limestone aquifer has been prepared for the general area around the sinkhole and is included with this submittal. This diagram was generated manually in AutoCad TM utilizing only the three data points closest to the sinkhole. During this sampling event, the change in elevation between TH-72 and TH-76 is - 0.05 ft., and the change between TH-72 and TH-77 is + 0.12 ft. The diagram indicates that flow within the UFA in the area of the former sinkhole continues to be in a north/northwest direction, but at what appears to be a very slow rate. Based on the consistency of the direction of flow, the County has installed an additional upper Floridan / Limestone aquifer groundwater monitoring well down gradient of the sinkhole. This monitoring well, designated as TH-78, shall be completed in June, and sampled during the July IAMP sampling event and each month thereafter.

Conclusions

The water quality observed in the May 2014 IAMP sampling event indicates that the upper Floridan / Limestone well TH-72, which is closest to the sinkhole, continues to exhibit impacts to water quality. The impacts observed in TH-72 include elevated conductivity, TDS, chloride, iron and sodium. These impacts are not unexpected within the upper Floridan / Limestone aquifer in the immediate vicinity of the sinkhole feature. Upper Floridan / Limestone aquifer monitoring wells, TH-76 and TH-77 continue to exhibit good water quality with no evidence of impact from the sinkhole. Conductivity values, TDS, and chloride are all very low and consistent with the historical data set for the unaffected upper Floridan aquifer groundwater monitoring wells at the SCLF, which supports the position that the impacts from the sinkhole are limited in extent and do not appear to be migrating beyond the area close to the feature.

Recommendations

The County continues to move forward with implementation of the IAMP, which includes the monthly sampling of the three upper Floridan / Limestone aquifer groundwater monitoring wells, TH-72, TH-76, and TH-77, and the quarterly sampling of the three surficial aquifer monitoring wells, TH-73, TH-74, and TH-75. Additionally, the County will also begin monthly monitoring of upper Floridan / Limestone aquifer groundwater monitoring well TH-78. We will continue to evaluate any water quality changes in both the surficial and upper Floridan aquifer wells, and present the findings in the monthly IAMP reports. The monitoring activities have been conducted for over three years and the consistency of the data set supports a significant reduction

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in the frequency. The County intends to propose this reduction in the number of monitoring wells sampled and the frequency of sampling and reporting in a separate correspondence. If the Department has any specific concerns with this position, we would welcome any guidance.

Enclosed for your review please find a site location map depicting the location of the monitoring wells sampled, the water quality data summary table for this sampling event, a groundwater elevation data table, groundwater contour and flow diagrams for the surficial and upper Floridan / Limestone aquifers, the historical data summary tables for the wells sampled this month, 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) 663-3221.

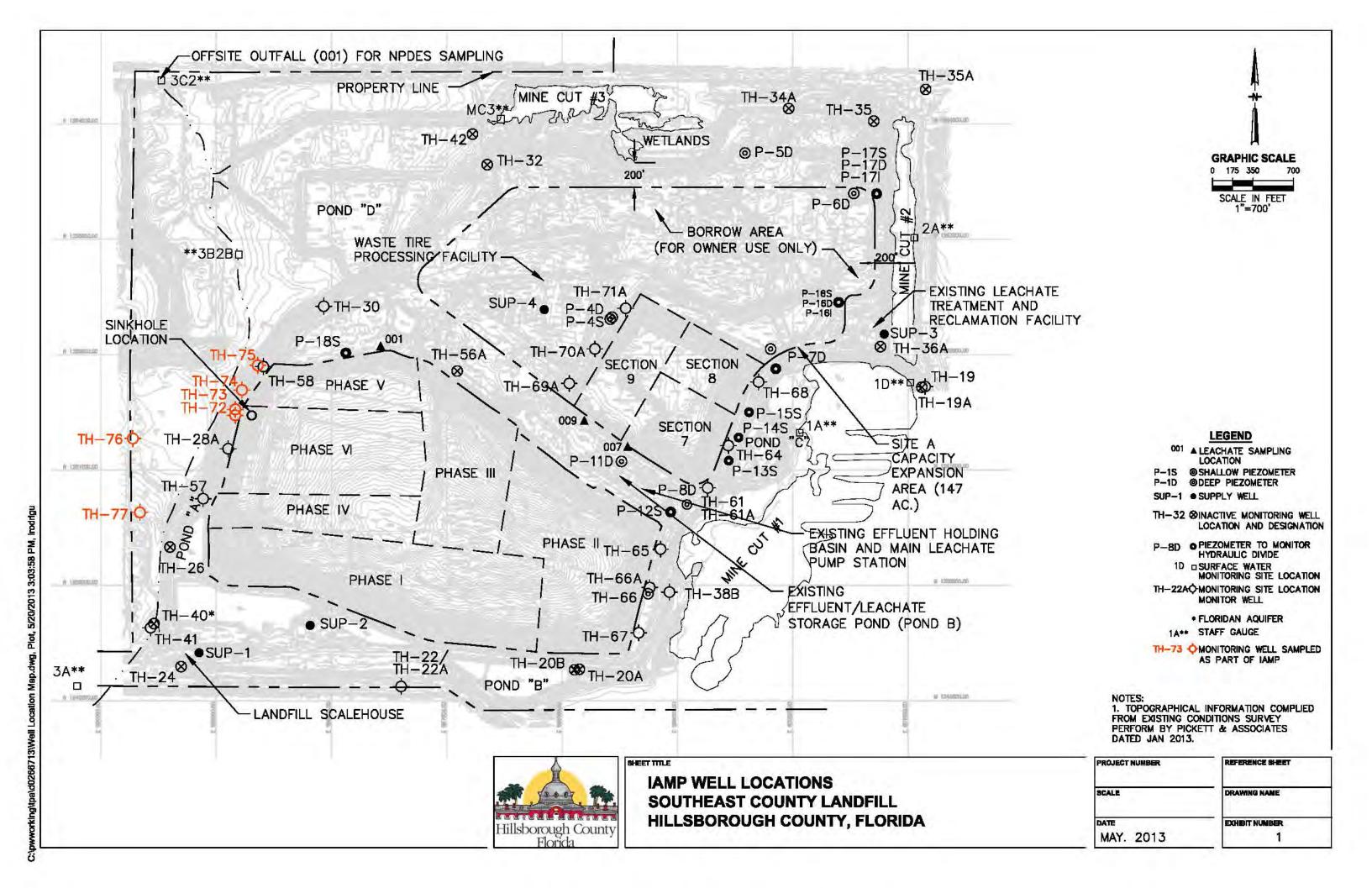
Respectfully submitted,

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

XC:

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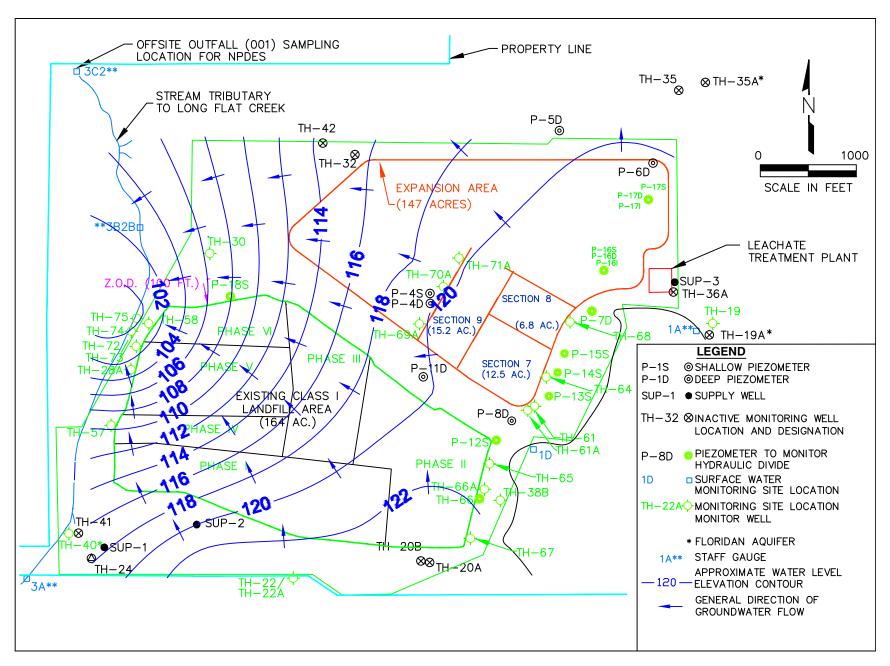


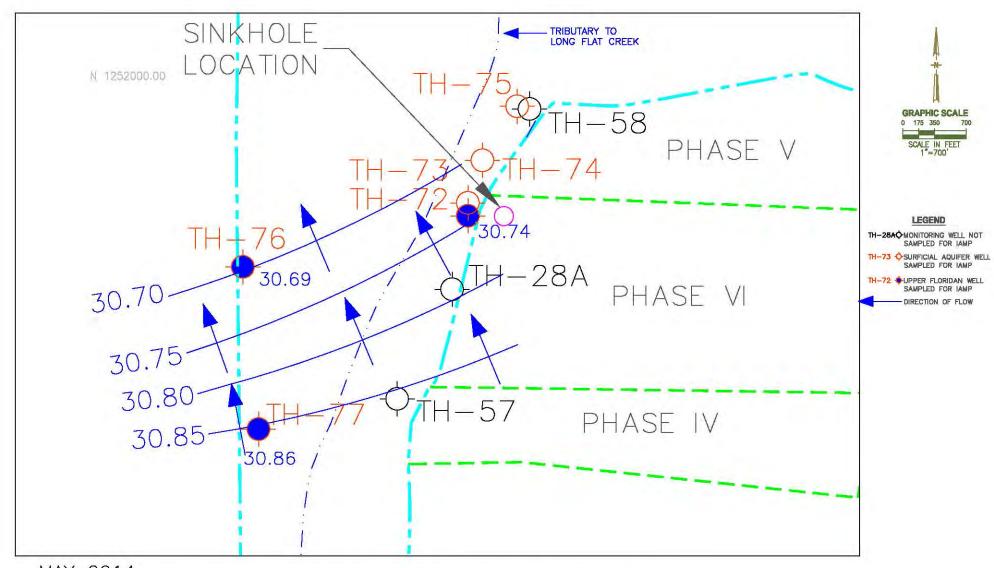
Southeast County Landfill Laboratory Analytical Data Surficial and Upper Floridan Aquifer Groundwater Monitoring Wells May 6-7, 2014

GENERAL (mg/l)	Surficia	I Aquifer \	Vells	Upper	Floridan '	Wells		(MCL) STANDARD
PARAMETERS	TH-73	TH-74	TH-75	TH-72	TH-76	TH-77	Duplicate	
conductivity (umhos/cm) (field)	340	549	341	2247	427	414	NA	NS
dissolved oxygen (mg/l) (field)	1.13	0.57	0.37	0.46	0.24	0.34	NA	NS
pH (field)	5.05	5.56	5.67	6.81	7.56	7.52	NA	(6.5 - 8.5)**
temperature (°C) (field)	25.59	22.06	22.61	23.50	22.85	23.47	NA	NS
turbidity (NTU) (field)	4.01	3.93	3.01	1.22	12.7	1.01	NA	NS
total dissolved solids (mg/l)	210	310	200	1400	220	220	220	500**
chloride (mg/l)	90	92	27	590	12	9.7	9.8	250**
ammonia nitrogen (mg/l as N)	3.3	3.1	1.8	24	0.38	0.59	0.63	NS
_								(MCL) STANDARD
Metals: (mg/l)	TH-73	TH-74	TH-75	TH-72	TH-76	TH-77	Duplicate	
arsenic	0.004 u	0.004 u	0.0066 i	0.004 u	0.004 u	0.004 u	0.004 u	0.01*
iron	4	31	6.1 j3	0.64	0.65	0.19 i	0.18 i	0.3**
sodium	31	40	18	230	21	17	17	160*
MCL=Maximum Contaminant Level								
NA =Not Analyzed								
NS=No Standard								
NTU = Nephelometric Turbidity Units								
i = reported value is between the labor	ratory met	hod detect	on limit an	d the labor	atory practi	ical quantitat	on limit.	
u = parameter was analyzed but not								
j3 = estimated value, value may not b	e accurate	. Spike rec	overy or R	PD outside	of criteria			
*=Denotes Primary Drinking Water St	andard as	per Chapte	er 62-550.3	310, F.A.C.				
**=Denotes Secondary Drinking Wate								
*** = Denotes Groundwater Cleanup	Target Lev	els as per	Chapter 62	,777, F.A.C	; .			
5.05	Exceeds	Standard						
mg/l=milligrams per liter								
ug/l = Micrograms per liter								

Southeast County Landfill Groundwater and Surface Water Elevations May 5, 2014

Measuring	T.O.C.			
Point	Elevations	W.L.	W.L.	Time
I.D.	(NGVD)	B.T.O.C.	(NGVD)	
P-4D	140.78	22.67	118.11	12:49 PM
P-4S P-5D	140.95 151.94	9.52 Dry	131.43 151.94	12:48 PM 11:08 AM
P-6D-A	148.01	26.52	121.49	11:18 AM
P-7D	138.92	17.96	120.96	11:51 AM
P-8D	138.34	18.19	120.15	12:14 PM
P-11D	138.02	17.97	120.05	12:34 PM
P-12S	134.97	14.50	120.47	12:16 PM
P-13S	140.21	18.16	122.05	12:01 PM
P-14S	138.56	17.34	121.22	11:57 AM
P-15S	139.19	18.50	120.69	11:54 AM
P-16S	143.38	15.80	127.58	11:27 AM
P-16I	144.15	23.87	120.28	11:27 AM
P-16D P-17S	143.84 137.35	23.61 14.80	120.23 122.55	11:28 AM 11:34 AM
P-175	137.32	15.95	121.37	11:34 AM
P-17D	137.22	16.09	121.13	11:35 AM
P-18S	129.86	18.49	111.37	10:36 AM
P-19	133.36	13.51	119.85	11:15 AM
P-20	132.38	12.11	120.27	11:22 AM
P-21	122.79	2.95	119.84	1:06 PM
P-22	128.35	8.33	120.02	1:07 PM
P-23	143.13	23.49	119.64	1:11 PM
TH-19*	130.27	101.69	28.58	11:44 AM
TH-20A	131.86	9.01	122.85	12:26 PM
TH-20B TH-22	132.57 128.82	10.02 4.51	122.55 124.31	12:25 PM 9:39 AM
TH-22A	120.02	5.13	124.31	9:40 AM
TH-24A	128.23	4.02	124.21	9:43 AM
TH-28A	131.10	27.74	103.36	10:47 AM
TH-30	128.88	23.88	105.00	10:40 AM
TH-32	129.90	15.08	114.82	10:32 AM
TH-35	145.98	28.34	117.64	11:12 AM
TH-36A	152.70	32.71	119.99	11:48 AM
TH-38A	130.68	10.15	120.53	12:29 PM
TH-38B	131.81	12.67	119.14	12:30 PM
TH-40* TH-41*	124.99 125.00	96.80 102.89	28.19 22.11	9:53 AM 9:52 AM
TH-42*	116.74	75.39	41.35	9.52 AW 10:29 AM
TH-57	128.36	18.90	109.46	10:50 AM
TH-58	127.88	27.98	99.90	10:42 AM
TH-61	138.73	17.30	121.43	12:10 PM
TH-61A	139.45	18.10	121.35	12:11 PM
TH-64	139.64	17.42	122.22	11:59 AM
TH-65	135.40	14.70	120.70	12:19 PM
TH-66	130.58	8.70	121.88	12:22 PM
TH-66A	130.66	9.04	121.62	12:21 PM
TH-67 TH-68	129.51 140.01	5.49 18.78	124.02 121.23	12:23 PM 11:53 AM
TH-69A	144.97	25.89	119.08	12:39 PM
TH-70A	146.63	26.89	119.74	12:46 PM
TH-71A	146.95	27.42	119.53	1:00 PM
TH-72*	130.96	100.22	30.74	10:52 AM
TH-73	131.07	30.66	100.41	10:51 AM
TH-74	109.08	9.22	99.86	10:53 AM
TH-75	106.92	7.63	99.29	10:58 AM
TH-76* TH-77*	111.21 119.88	80.52	30.69	10:03 AM 9:59 AM
SW-3A	3.0'=125.53'	89.02 0.74	30.86 123.27	9:59 AM 9:28 AM
SW-3B2B	3.0'=97.97'	1.80	96.77	10:12 AM
SW-3C2	6.0'=92.33'	1.66	87.99	10:12 AM
Mine Cut #1	4.0'=122.14'	2.56	120.70	12:05 PM
Mine Cut #2	6.0'=123.47'	2.79	120.26	11:13 AM
Mine Cut #3	4.0'=112.27'	2.45	110.72	10:26 AM
Mine Cut #4	5.0'=97.54'	1.88	94.42	10:24 AM
	= National Geode	tic Vertical Datum		
	= Top of Casing			
B.T.O.C.	•	asıng		
*	= Floridan Well = No Data - Samp	ling Location Dr.		
W.L.	•	ing Location Dry		
W.L.	- Maici LCVCI			





MAY 2014
UPPER FLORIDAN / LIMESTONE AQUIFER CONTOUR DIAGRAM
IN THE VICINITY OF THE FORMER SINKHOLE
SOUTHEAST COUNTY LANDFILL
HILLSBOROUGH COUNTY, FLORIDA

		Water					<u> </u>	total					
	Depth to	Table	conductivity	dissolved				dissolved		ammonia			
Date	Water (feet)	Elevation (NGVD)	(umhos/cm) (field)	oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	solids (mg/l)	chloride (mg/l)	nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
01/27/2011	115.69	15.27	551	0.39	7.43	22.88	3.2	320	32	0.22	0.004 u	0.52	32
02/03/2011	112.18	18.78	565	1.09	7.38	22.95	9.9	300	32	0.21	0.004 u	0.62	27
02/10/2011	109.80	21.16	514	1.58	7.34	22.65	3.2	340	31	0.28	0.004 u	0.54	31
02/14/2011	108.18	22.78	483	1.15	7.36	22.7	3.5	320	32	0.24	0.0013 u	0.58	32
02/24/2011	111.71	19.25	513	0.19	7.34	22.85	1	350	32	0.22	0.004 u	0.53	31
03/03/2011	111.88	19.08	579	0.77	7.35	22.8	0.8	330	31	0.23	0.004 u	0.43	32
03/10/2011	113.65	17.31	551	1.26	7.41	22.73	0.9	320	30	0.18	0.004 u	0.35	31
03/17/2011	112.85	18.11	388	1.05	7.34	22.9	0.9	330	30	0.31	0.004 u	0.25	31
03/24/2011	114.33	16.63	1192	1.5	7.58	23.1	1.5	1,100	350	9	0.004 u	0.64	130
04/01/2011	115.70	15.26	928	0.16	7.41	22.8	3.6	520	110	2	0.004 u	0.24	59
04/08/2011	112.10	18.86	810	0.92	7.35	23.13	6.1	420	87	1.9	0.004 u	0.22	51
05/05/2011	116.21	14.75	609	0.71	7.67	23.01	6.6	320	33	0.3	0.004 u	0.27	37
06/08/2011	119.19	11.77	607	0.71	7.65	23.35	4.51	340	32	0.57	0.004 u	0.2	34
07/07/2011	113.30	17.66	606	0.72	7.4	23.25	3.94	150	64	2.1	0.004 u	7.9	27
08/04/2011	103.31	27.65	564	0.33	7.29	23.18	0.4	360	33	0.21	0.004 u	0.18 i	34
09/08/2011	97.99	32.97	536	1.11	7.29	23.2	0.6	340	34	0.41	0.004 u	0.18 i	36
10/04/2011	99.45	31.51	471	1.69	7.31	23.13	1.1	290	31	0.3	0.004 u	0.14 i	34
11/03/2011	103.37	27.59	550	1.8	7.28	23.04	1.51	290	32	0.29	0.004 u	0.15 i	34
12/08/2011	106.80	24.16	528	1.92	7.31	22.9	0.73	320	29	0.32	0.004 u	0.13 i	33
01/05/2012	113.08	17.88	535	0.2	7.23	22.74	0.44	330	32	0.29	0.004 u	0.097 i	31
02/10/2012	113.86	17.10	511	0.94	7.3	22.89	1.39	310	28	0.28	0.004 u	0.13 i	30
03/07/2012	121.00	9.96	575	0.27	7.15	23.23	0.5	310	25	0.22	0.004 u	0.11 i	31
04/05/2012	124.96	6.00	522	1.09	7.08	23.18	0.65	280	28	0.41	0.004 u	0.11 i	29
05/03/2012	126.55	4.41	746	1.6	6.9	23.46	0.81	380	72	2.3	0.004 u	0.54	49
06/07/2012	120.46	10.50	641	0.72	7.07	23.4	0.26	370	46	1	0.004 u	0.23	37
07/05/2012	104.95	26.01	900	0.23	6.54	23.52	0.4	650	190	2.9 j3	0.004 u	0.39	70
08/03/2012	98.26	32.70	843	0.69	6.77	23.6	2.23	730	210	3	0.004 u	0.48	78
09/06/2012	91.18	39.66	2,357	0.2	6.51	23.62	1.05	1,300	570	12	0.004 u	1.1	170
10/04/2012	90.19	40.77	1,654	0.6	6.43	23.22	0.46	1,500	650	25	0.004 u	1.9	210
11/07/2012	99.29	31.67	2,488	0.76	6.58	23.03	0.74	1,400	540	15	0.004 u	1.4	180
12/05/2012	101.82	29.14	2,416	0.23	6.49	23.18		1,300	540	13	0.004 u	1.3	180 j3
01/03/2013	100.65	30.31	2,430	1.1	6.44	23.09	0.42	1,400	500	15	0.004 u	1.3	170 j3
02/07/2013	105.58	25.38	2,206	0.6	6.5	23.1	0.22	1,100	470	13	0.004 u	1.1	160
03/07/2013	110.00	20.96	1,234	0.3	6.61	22.85	0.41	770	290	11	0.004 u	1.1	110
04/04/2013	111.35	19.61	1,252	0.33	6.74	23.15	9.9	870	260	10	0.004 u	1	100
05/02/2013	109.56	21.40	1,615	0.18		23.16			300		0.004 u	0.87	110
06/04/2013	109.62	21.34	1,440	0.31	7.13	23.3		850	290	8.4	0.004 u	0.82	120
07/03/2013	98.72	32.24	1,450	0.18	7.03	23.5		820	280	8.8	0.004 u	0.79	120
08/02/2013	ND	ND	1,256	0.46	6.88	23.43		800	290	6.8	0.004 u	0.72	120
09/05/2013	87.92	43.04	1,001	0.61	6.98	23.45		760	290	7.6	0.004 u	0.71	110
10/02/2013	87.39	43.57	1,566	0.32	6.86	23.53		1,000	350		0.004 u	0.79	120
11/06/2013	97.90	33.06	2,145	0.16	6.69	23.36		1,200	450	12	0.004 u	0.64	170
12/05/2013	98.50	32.46	2,615	0.39	6.74	23.45		1,200	580	16	0.004 u	0.65	200
01/03/2014	99.02	31.94	2,220	0.84	6.83	22.88			580	25	0.004 u	0.67	230 j3
02/06/2014	99.50	31.46	2,452	0.13	6.69	23.13		1,300	580	23 j3	0.004 u	0.71	210
03/04/2014	97.91	33.05	2,173	0.24	6.67	23.4		1,500	580	22	0.004 u	0.74	220
04/03/2014	96.22	34.74	1,992	0.22	6.74	23.35	1.33	1,400	590	27	0.0013 u	0.71	220

New survey data beginning with 10/4/2012.

1,100 EXCEEDS STANDARD

u = parameter was analyzed but not detected

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

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

ND = No Data - water levels collected during quarterly ADR.

						111.70							
		Water						total					
	Depth to	Table	conductivity	dissolved			turbidity	dissolved		ammonia			1
5 .	Water	Elevation	(umhos/cm)	oxygen (mg/l)	11.76. 1.15	temperature	(NTU)	solids	chloride	nitrogen (mg/l	arsenic		sodium
Date	(feet)	(NGVD)	(field)	(field)	pH (field)	(°C) (field)	(field)	(mg/l)	(mg/l)	as N)	(mg/l)	iron (mg/l)	(mg/l)
01/27/2011	30.99	100.08	440	1.7	5.53	25.01	22.2	180	69		0.004 u		
02/03/2011	30.85	100.22	400	1.78	5.62	26.12	17.6	140	56	1.9	0.004 u	31	
02/10/2011	30.76	100.31	336	1.44	5.62	25.86	12	160	56	2	0.004 u	26	
02/14/2011	30.82	100.25	312	0.56	5.54	26	15.5	190	55	2.6	0.004 u	34	
02/24/2011	30.78	100.29	340	0.38	5.62	26.15	16.4	170	61	3	0.004 u	17	
03/03/2011	30.87	100.20	382	0.53	5.56	26	19.4	200	61	2.1	0.004 u	21	29
03/10/2011	30.87	100.20	371	0.66	5.56	25.97	8.3	170	60	1.7	0.004 u	21	
03/17/2011	30.76	100.31	266	1.22	5.35	26	14.3	150	69	2.1	0.004 u	12	
03/24/2011	30.78	100.29	346	0.61	5.47	26.02	8	140	63	2	0.004 u	13	
04/01/2011	31.11	99.96	366	0.78	5.53	25.89	19.8	160	68	1.7	0.004 u	14	
04/08/2011	30.65	100.42	331	0.62	5.35	25.97	18	140	66	2.1	0.004 u	11	30
05/05/2011	31.70	99.37	361	0.4	5.34	25.64	12.2	150	66	2	0.004 u	20	
06/08/2011	32.54	98.53	391	0.7	5.41	25.69	14	150	63	2.2	0.004 u	14	
07/07/2011	31.55	99.52	306	0.35	5.13	25.34	19.2	350	33	0.52	0.004 u	0.22	31
08/04/2011	31.40	99.67	262	0.89	5.12	25.44	19.9	140	60	1.2	0.004 u	8.2	24
09/08/2011	30.66	100.41	259	0.49	5.24	25.41	28.1	170	62	1.9	0.004 u	8.5	
10/04/2011	31.16	99.91	345	0.89	5.2	25.48	12	220	96	1.8	0.004 u	9.1	33
11/03/2011	31.27	99.80	1273	0.3	5.21	25.55	8.16	720	360	7.3	0.004 u	22	
12/08/2011	31.96	99.11	1499	0.62	5.3	25.24	2.64	820	500	3	0.004 u	26	
01/05/2012	32.31	98.76	1188	0.71	5.16	25.18	2.05	750	350	3.3	0.004 u	19	
02/10/2012	32.25	98.82	304	0.55	5.28	25.24	3.31	190	67	1.6	0.004 u	4.9	
03/07/2012	32.42	98.65	312	1.08	5.22	25.24	3.3	150	56	1.2	0.004 u	4.7	22
04/05/2012	32.63	98.44	231	0.79	5.06	24.94	4.39	120	50	1.1	0.004 u	4.1	
05/03/2012	32.74	98.33	283	0.99	4.8	24.88	6.47	160	63	1.9	0.004 u	4.5	
06/07/2012	32.40	98.67	224	0.87	4.82	24.64	5.6	140	48	1.6	0.004 u	3.3	
07/05/2012	31.51	99.56	232	0.31	4.77	24.63	9	140	50	1.7	0.004 u	4	18
08/03/2012	32.09	98.98	201	0.71	5.02	24.63	5.13	160	52	1.7	0.004 u	3.8	
09/06/2012	31.22	99.76	242	0.5	5.06	24.67	7.39	140	47	1.3	0.004 u	3.6	
10/04/2012	31.46	99.61	222	0.18	4.86	24.68	7.56	130	43	1.2	0.004 u	3.4	
11/07/2012	31.84	99.23	231	0.39	5.06	24.75	5.54	130	45	0.94	0.004 u	3.6	
12/05/2012	32.14	98.93	237	0.2	5.03	24.9	3.26	110	46	0.84	0.004 u	3.5	
01/03/2013	31.91	99.16	237	0.49	4.95	24.84	2.47	130	45	1.1	0.004 u	3.2	
02/07/2013	32.11	98.96	221	0.69	4.84	24.79	4.8	120	47	0.84	0.004 u	3	
03/07/2013	32.41	98.66	179	0.23	4.78	24.46	2.64	110	45	1.2	0.004 u	3.1	17
04/04/2013	32.41	98.66	191	0.2	4.73	24.42	2.49	140	53	1.1	0.004 u	3.4	
05/02/2013	31.40	99.67	240	0.24	5.12	24.43	8.82	120	52	0.99	0.004 u	3.4	
08/02/2013	ND	ND	395	0.23	5.13	24.85	10.4	270	130	2.3	0.004 u	7.8	
11/06/2013	30.36	100.71	319	0.62	5.01	25.54	6.35	200	76	2.2	0.004 u	3.8	
03/04/2014	30.78	100.29	381	0.39	4.92	25.11	6.23	230	96	1.9	0.004 u	4.6	31

New survey data beginning with 10/4/2012.

u = parameter was analyzed but not detected

NS = No Sample Collected (Surficial wells are now sampled quarterly)

ND = No Data - water levels collected during quarterly ADR.

5.53 EXCEEDS STANDARD

		Water						total					1
	Depth to	Table	conductivity	dissolved			turbidity	dissolved		ammonia			
	Water	Elevation	(umhos/cm)	oxygen (mg/l)		temperature	(NTU)	solids	chloride	nitrogen (mg/l	arsenic		sodium
Date	(feet)	(NGVD)	(field)	(field)	pH (field)	(°C) (field)	(field)	(mg/l)	(mg/l)	as N)	(mg/l)	iron (mg/l)	(mg/l)
11/03/2011	9.65	ND	485	0.51	5.56	23.62	5.45	280	48	2.9	0.004 u	26	20
12/08/2011	10.11	98.97	445	0.89	5.64	22.9	14.7	270	40	2.3	0.0042 i	27	21
01/05/2012	10.30	98.78	474	0.66	5.66	21.97	16.8	240	59	1.8	0.004 u	30	26
02/10/2012	10.22	98.86	501	0.6	5.42	21.48	9.99	350	95	2.5	0.004 u	34	22
03/07/2012	10.40	98.68	618	0.53	5.24	21.57	8.7	210	120	2.3	0.004 u	38	22
04/05/2012	10.53	98.55	592	0.79	5.13	21.74	13.7	270	120	2.8	0.004 u	40	24
05/03/2012	10.71	98.37	602	0.86	5.15	21.93	12.5	330	110	2.8	0.004 u	38	25
06/07/2012	10.45	98.63	334	0.75	5.35	22.48	6.92	210	37	3	0.004 u	20	16
07/05/2012	9.45	99.63	495	0.32	4.99	23.09	5.33	240	73	2.1	0.004 u	11	27
08/03/2012	9.99	99.09	261	0.37	5.18	23.63	6.12	210	47	3	0.004 u	19	15
09/06/2012	9.36	99.66	578	0.24	5.33	24.08	2.37	330	110	2.8	0.012	21	36
10/04/2012	9.53	99.55	369	0.25	5.36	24.12	3.98	260	76	3.5	0.0055 i	19	22
11/07/2012	9.91	99.17	385	0.36	5.47	23.53	3.21	240	60	1.9	0.0045 i	18	20
12/05/2012	10.14	98.94	398	0.34	5.44	22.82	3.08	230	59	2.7	0.004 u	21	19
01/03/2013	9.96	99.12	418	0.31	5.43	22.03	3.03	280	59	2.7	0.004 u	20	20
02/07/2013	10.16	98.92	394	0.34	5.43	21.66	1.95	200	45	1.9	0.004 u	20	16
03/07/2013	10.23	98.85	363	0.35	5.38	21.06	1.24	180	47	3	0.004 u	20	17
04/04/2013	10.52	98.56	273	0.38	5.34	20.75	5.85	210	43	1.9	0.004 u	20	16
05/02/2013	9.94	99.14	357	0.39	5.61	21.28	2.62	190	37	2.8	0.004 u	21	14
08/02/2013	ND	ND	508	0.29	5.55	23.26	1.3	240	63	3.2	0.004 u	31	20
11/06/2013	9.37	99.71	1,348	1.41	5.43	23.98	9.71	890	370	3.2	0.004 u	60	78
03/04/2014	9.52	99.56	570	0.58	5.55	21.83	2.26	370	95	3.5	0.004 u	29	44

New survey data beginning with 10/4/2012.

5.56 EXCEEDS STANDARD

u = parameter was analyzed but not detected

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

NS = No Sample Collected (Surficial wells are now sampled quarterly)

ND = No Data - water levels collected during quarterly ADR.

	Depth to	Water Table	conductivity	dissolved			turbidity	total dissolved		ammonia			
	Water	Elevation	(umhos/cm)	oxygen (mg/l)		temperature	(NTU)	solids	chloride	nitrogen (mg/l	arsenic		sodium
Date	(feet)	(NGVD)	(field)	(field)	pH (field)	(°C) (field)	(field)	(mg/l)	(mg/l)	as N)	(mg/l)	iron (mg/l)	(mg/l)
11/03/2011	7.68	ND	396	0.25	5.65	23.63	11.6	220	49	1.4	0.0085 i	11	14
12/08/2011	7.90	99.02	301	0.46	5.57	22.9	20.1	150	23	1.1	0.011	8.9	11
01/05/2012	8.01	98.91	300	0.92	5.58	21.69	18.9	180	25	1.1	0.0071 i	8.6	10
02/10/2012	8.00	98.92	422	0.51	5.48	21.5	17.9	280	81	1.1	0.0072 i	12	20
03/07/2012	8.14	98.78	495	0.26	5.39	21.5	19.6	220	79	0.96	0.0079 i	13	22
04/05/2012	8.15	98.77	584	0.33	5.37	21.76	4.94	300	130	1.3	0.0063 i	16	26
05/03/2012	8.27	98.65	588	0.28	5.32	22.06	0.0	350	120	1.9	0.0078 i	16	33
06/07/2012	8.14	98.78	702	0.39	5.61	22.87	5.69	480	140	1.5	0.0095 i	10	40
07/05/2012	7.36	99.56	344	0.22	5.35	23.52	6.48	180	37	2	0.01	9.8	15
08/03/2012	7.80	99.12	241	0.28	5.28	24.07	4.21	190	25	1.8	0.008 i	8.3	14
09/06/2012	7.42	99.50	360	0.18	5.41	24.5	4.41	200	40	2	0.01	9.1	15
10/04/2012	7.55	99.37	346	0.15	5.35	24.54	6.73	240	51	2.5	0.0084 i	9.2	15
11/07/2012	7.79	99.13	422	0.3	5.48	23.8	2.51	200	54	1.6	0.0086 i	9.8	17
12/05/2012	7.98	98.94	395	0.31	5.5	22.97	7.22	210	48	1.4	0.0067 i	9.2	16
01/03/2013	7.88	99.04	447	0.37	5.53	21.89	13.9	400	60	1.3	0.0065 i	8.1	21
02/07/2013	8.02	98.90	453	0.2	5.48	21.71	6.35	240	62	1.5	0.0076 i	9.8	19
03/07/2013	8.04	98.88	379	0.27	5.4	21.38	2.71	200	40	1.9	0.0061 i	8	17
04/04/2013	8.23	98.69	245	0.25	5.34	21.08	4.92	180	22	1.7	0.0068 i	7.3	14
05/02/2013	8.00	98.92	340	0.21	5.61	21.72	1.59	170	26	1.3	0.0071 i	7.6	13
08/02/2013	ND	ND	356	0.21	5.63	23.9	2.1	170	28	1.3	0.0096 i	7.6	18
11/06/2013	7.81	99.11	353	1.13	5.78	24.32	12.3	200	31	1.3	0.0046 i	6.5	14
03/04/2014	7.87	99.05	338	0.39	5.66	22.51	5.3	200	27	1.5	0.0067 i	6.1	16

New survey data beginning with 10/4/2012.

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

ND = No Data - water levels collected during quarterly ADR.

5.65 EXCEEDS STANDARD

	Depth to Water	Water Table Elevation	conductivity (umhos/cm)	dissolved oxygen (mg/l)		temperature	turbidity (NTU)	total dissolved solids	chloride	ammonia nitrogen (mg/l	arsenic		sodium
Date	(feet)	(NGVD)	(field)	(field)	pH (field)	(°C) (field)	(field)	(mg/l)	(mg/l)	as N)	(mg/l)	iron (mg/l)	(mg/l)
05/02/2013	89.83	21.38	450	0.22	7.63	22.81	36.9	220	13	0.4	0.004 u	1.1	20
06/04/2013	89.91	21.30	401	0.27	7.86	22.9	16.2	240	13	0.4	0.004 u	0.66	22
07/03/2013	79.04	32.17	398	0.19	8	23	28.6	210	12	0.34	0.004 u	0.99	22
08/02/2013	ND	ND	343	0.22	7.57	23.02	42.2	230	13	0.26	0.004 u	1.6	21
09/05/2013	68.22	42.99	278	0.21	7.74	22.97	46	240	12	0.32	0.004 u	1.5	20
10/02/2013	67.69	43.46	399	0.22	7.61	22.99	61.9	120	13	0.38	0.004 u	1.7	20
11/06/2013	78.19	33.02	446	0.64	7.54	22.84	29	260	13	0.36	0.004 u	1.1	20
12/05/2013	78.80	32.41	478	0.48	7.45	22.9	19.2	240	12	0.35	0.004 u	0.96	20
01/03/2014	79.38	31.83	398	0.58	7.67	22.35	19.4	190	12	0.23 j3	0.004 u	1.1	20
02/06/2014	79.87	31.34	446	0.14	7.54	22.57	18.1	230	12	0.45	0.004 u	0.96	20
03/04/2014	78.20	33.01	434	0.18	7.36	22.7	26.2	230	12	0.33	0.004 u	0.69	20
04/03/2014	76.54	34.67	441	0.18	7.46	22.82	24.7	210	12	0.6	0.0013 u	0.34	19

u = parameter was analyzed but not detected

ND = No Data - water levels collected during quarterly ADR.

1.1 EXCEEDS STANDARD

Date	Depth to Water (feet)	Water Table Elevation (NGVD)	conductivity (umhos/cm) (field)	dissolved oxygen (mg/l) (field)	pH (field)	temperature (°C) (field)	turbidity (NTU) (field)	total dissolved solids (mg/l)	chloride (mg/l)	ammonia nitrogen (mg/l as N)	arsenic (mg/l)	iron (mg/l)	sodium (mg/l)
05/02/2013	98.31	21.57	440	0.57	7.39	23.39	59.4	190	9.4	0.39	0.004 u	1.2	17
06/04/2013	98.38	21.50	384	0.56	7.86	23.59	35.4	230	8.9	0.42	0.004 u	0.89	18
07/03/2013	87.48	32.40	388	0.41	7.8	23.7	38.4	210	8.9	0.4	0.004 u	1.1	17
08/02/2013	ND	ND	334	0.47	7.44	23.66	42.9	230	9.2	0.36	0.004 u	1.1	18
09/05/2013	76.66	43.22	269	0.83	7.61	23.68	47.1	230	8.9	0.35	0.004 u	0.96	16
10/02/2013	76.14	43.72	383	0.69	7.5	23.59	52.7	240	9.1	0.39	0.004 u	1.3	17
11/06/2013	86.68	33.20	423	0.74	7.43	23.51	25.1	230	9.7	0.36 j3	0.004 u	0.68	17
12/05/2013	87.29	32.59	451	0.9	7.44	23.6	16.4	220	9	0.36	0.004 u	0.58	17
01/03/2014	87.87	32.01	371	0.85	7.65	23.18	16.5	160	9.1	0.39	0.004 u	0.63	17
02/06/2014	88.30	31.58	424	0.09	7.53	23.39	4.62	250	9.2	0.27	0.004 u	0.26	16
03/04/2014	86.70	33.18	418	0.36	7.34	23.38	1.12	230	9.3	0.32	0.004 u	0.21	16
04/03/2014	85.02	34.86	430	0.28	7.45	23.47	1.97	220	9.4	0.61	0.0013 u	0.18	15

u = parameter was analyzed but not detected

1.2 EXCEEDS STANDARD

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

ND = No Data - water levels collected during quarterly ADR.



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: 660-60510-1

Client Project/Site: SELF IAMP Monitoring Wells

For:

Hillsborough Co Public Utilities Dept Environmental Services Group Brandon Support Operations Complex 332 North Falkenburg Rd, 2nd Floor Tampa, Florida 33619

Attn: David Adams

No bouh

Authorized for release by: 5/16/2014 12:52:27 PM

Nancy Robertson, Project Manager II (813)885-7427

nancy.robertson@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

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Sample Summary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-60510-1	DUPLICATE NOT BLANK	Ground Water	05/06/14 00:00	05/06/14 14:36
660-60510-2	BLANK FIELD	Ground Water	05/06/14 09:58	05/06/14 14:36
660-60510-3	TH-77	Ground Water	05/06/14 10:09	05/06/14 14:36
660-60510-4	TH-76	Ground Water	05/06/14 11:15	05/06/14 14:36
660-60510-5	TH-72	Ground Water	05/06/14 12:33	05/06/14 14:36
660-60541-1	TH-75	Water	05/07/14 12:07	05/07/14 14:12
660-60541-2	TH-74	Water	05/07/14 11:22	05/07/14 14:12
660-60541-3	TH-73	Water	05/07/14 10:39	05/07/14 14:12

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Case Narrative

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells TestAmerica Job ID: 660-60510-1

Job ID: 660-60510-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-60510-1

Comments

No additional comments.

Receipt

The samples were received on 5/6/2014 2:36 PM and 5/7/2014 2:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 5.1° C.

Metals

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 148192 were outside control limits for iron. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The sample is flagged with J3.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 328800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 328800 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

ML

NC

Abbreviation	These commonly used abbreviations may or may not be present in this report.							
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis							
%R	Percent Recovery							
CNF	Contains no Free Liquid							
DER	Duplicate error ratio (normalized absolute difference)							
Dil Fac	Dilution Factor							
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample							
DLC	Decision level concentration							
MDA	Minimum detectable activity							
EDL	Estimated Detection Limit							
MDC	Minimum detectable concentration							
MDL	Method Detection Limit							

ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit

Minimum Level (Dioxin)

Not Calculated

QC	Quality Control
RER	Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)	ested Limit (Radiochemistry)
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TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Client Sample ID: BLANK FIELD

TestAmerica Job ID: 660-60510-1

Client Sample ID: DUPLICATE NOT BLANK

Lab Sample ID: 660-60510-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.8		0.50	0.25	mg/L	1	_	300.0	Total/NA
Iron	180	1	200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	17		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Ammonia as N	0.63		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA

Lab Sample ID: 660-60510-2

No Detections.

Client Sample ID: TH-77 Lab Sample ID: 660-60510-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	9.7		0.50	0.25	mg/L	1	_	300.0	Total/NA
Iron	190	1	200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	17		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Ammonia as N	0.59		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.52				SU	1		Field Sampling	Total/NA
Field Temperature	23.47				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.34				mg/L	1		Field Sampling	Total/NA
Specific Conductance	414				uS/cm	1		Field Sampling	Total/NA
Turbidity	1.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-76 Lab Sample ID: 660-60510-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	12		0.50	0.25	mg/L	1	_	300.0	Total/NA
Iron	650		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	21		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Ammonia as N	0.38		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	220		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	7.56				SU	1		Field Sampling	Total/NA
Field Temperature	22.85				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Specific Conductance	427				uS/cm	1		Field Sampling	Total/NA
Turbidity	12.7				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-72 Lab Sample ID: 660-60510-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	590		10	5.0	mg/L	20	_	300.0	Total/NA
Iron	640		200	50	ug/L	1		6010B	Total
Sodium	230		0.50	0.31	mg/L	1		6010B	Recoverable Total
Ammonia as N	24		1.0	0.52	mg/L	20		350.1	Recoverable Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

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Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Client Sample ID: TH-72 (Continued)

Lab Sample ID: 660-60510-5

Analyte	Result (Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1400		25	25	mg/L	1	_	SM 2540C	Total/NA
Field pH	6.81				SU	1		Field Sampling	Total/NA
Field Temperature	23.50				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.46				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2247				uS/cm	1		Field Sampling	Total/NA
Turbidity	1.22				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-75

Lab Sample ID: 660-60541-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	27		0.50	0.25	mg/L	1	_	300.0	Total/NA
Arsenic	6.6	1	10	4.0	ug/L	1		6010B	Total
									Recoverable
Iron	6100	J3	200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	18		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Ammonia as N	1.8		0.050	0.026	mg/L	1		350.1	Total/NA
Total Dissolved Solids	200		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.67				SU	1		Field Sampling	Total/NA
Field Temperature	22.61				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.37				mg/L	1		Field Sampling	Total/NA
Specific Conductance	341				uS/cm	1		Field Sampling	Total/NA
Turbidity	3.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-74

Lab Sample ID: 660-60541-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	92		2.0	1.0	mg/L	4	_	300.0	Total/NA
Iron	31000		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	40		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Ammonia as N	3.1		0.10	0.052	mg/L	2		350.1	Total/NA
Total Dissolved Solids	310		10	10	mg/L	1		SM 2540C	Total/NA
Field pH	5.56				SU	1		Field Sampling	Total/NA
Field Temperature	22.06				Degrees C	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.57				mg/L	1		Field Sampling	Total/NA
Specific Conductance	549				uS/cm	1		Field Sampling	Total/NA
Turbidity	3.93				NTU	1		Field Sampling	Total/NA

Client Sample ID: TH-73

Lab Sample ID: 660-60541-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	90		2.0	1.0	mg/L	4	_	300.0	Total/NA
Iron	4000		200	50	ug/L	1		6010B	Total
									Recoverable
Sodium	31		0.50	0.31	mg/L	1		6010B	Total
									Recoverable
Ammonia as N	3.3		0.10	0.052	mg/L	2		350.1	Total/NA
Total Dissolved Solids	210		5.0	5.0	mg/L	1		SM 2540C	Total/NA
Field pH	5.05				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Client Sample ID: TH-73 (Continued)

TestAmerica Job ID: 660-60510-1

Lab Sample ID: 660-60541-3

Analyte	Result Qualifier	PQL	MDL	Unit	Dil Fac	D Method	Prep Type
Field Temperature	25.59			Degrees C	1	Field Sampling	Total/NA
Oxygen, Dissolved	1.13			mg/L	1	Field Sampling	Total/NA
Specific Conductance	340			uS/cm	1	Field Sampling	Total/NA
Turbidity	4.01			NTU	1	Field Sampling	Total/NA

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Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Lab Sample ID: 660-60510-1

Client Sample ID: DUPLICATE NOT BLANK

Date Collected: 05/06/14 00:00

Matrix: Ground Water

Date Received: 05/06/14 14:36

Method: 300.0 - Anions, Ion Chromatogr

Method: 300.0 - Anions, Ion Cl	hromatography								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		0.50	0.25	mg/L			05/13/14 15:38	1
– Method: 6010B - Metals (ICP) -	- Total Recoverab	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/07/14 08:54	05/08/14 09:10	1
Iron	180	T.	200	50	ug/L		05/07/14 08:54	05/08/14 09:10	1
Sodium	17		0.50	0.31	mg/L		05/07/14 08:54	05/08/14 09:10	1
- General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.63		0.050	0.026	mg/L			05/08/14 08:37	1
Total Dissolved Solids	220		10	10	mg/L			05/07/14 10:15	1

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Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Lab Sample ID: 660-60510-2

05/07/14 10:15

Matrix: Ground Water

Client Sample ID: BLANK FIELD Date Collected: 05/06/14 09:58

Date Received: 05/06/14 14:36

Total Dissolved Solids

Method: 300.0 - Anions, Ion C	hromatography								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.25	U	0.50	0.25	mg/L			05/13/14 15:53	1
— Method: 6010B - Metals (ICP)	- Total Recoverat	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/07/14 08:54	05/08/14 09:14	1
Iron	50	U	200	50	ug/L		05/07/14 08:54	05/08/14 09:14	1
Sodium —	0.31	U	0.50	0.31	mg/L		05/07/14 08:54	05/08/14 09:14	1
— General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.026	U	0.050	0.026	mg/L			05/13/14 08:45	1

5.0

5.0 mg/L

5.0 U

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1 /

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Date Received: 05/06/14 14:36

TestAmerica Job ID: 660-60510-1

Client Sample ID: TH-77 Lab Sample ID: 660-60510-3 Date Collected: 05/06/14 10:09

Matrix: Ground Water

Method: 300.0 - Anions, Ion Ch	• • •								
Analyte	Result	Qualifier	PQL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fac
Chloride	9.7		0.50	0.25	mg/L			05/13/14 16:08	1
Method: 6010B - Metals (ICP) -	Total Recoverab	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/07/14 08:54	05/08/14 09:17	1
Iron	190	1	200	50	ug/L		05/07/14 08:54	05/08/14 09:17	1
Sodium	17		0.50	0.31	mg/L		05/07/14 08:54	05/08/14 09:17	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.59		0.050	0.026	mg/L			05/07/14 16:44	1
Total Dissolved Solids	220		10	10	mg/L			05/07/14 10:15	1
Method: Field Sampling - Field	Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.52				SU			05/06/14 10:09	1
Field Temperature	23.47				Degrees C			05/06/14 10:09	1
Oxygen, Dissolved	0.34				mg/L			05/06/14 10:09	1
Specific Conductance	414				uS/cm			05/06/14 10:09	1
Turbidity	1.01				NTU			05/06/14 10:09	

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

3

Client Sample ID: TH-76
Date Collected: 05/06/14 11:15

Date Received: 05/06/14 14:36

Field Temperature Oxygen, Dissolved

Turbidity

Specific Conductance

Lab Sample ID: 660-60510-4

05/06/14 11:15

05/06/14 11:15

05/06/14 11:15

05/06/14 11:15

Matrix: Ground Water

Method: 300.0 - Anions, Ion C Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		0.50	0.25	mg/L			05/13/14 16:24	1
Method: 6010B - Metals (ICP)	- Total Recoverab	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/07/14 08:54	05/08/14 09:20	1
Iron	650		200	50	ug/L		05/07/14 08:54	05/08/14 09:20	1
Sodium	21		0.50	0.31	mg/L		05/07/14 08:54	05/08/14 09:20	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.38		0.050	0.026	mg/L			05/07/14 16:44	1
Total Dissolved Solids	220		10	10	mg/L			05/07/14 10:15	1
- Method: Field Sampling - Field	d Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.56				SU		-	05/06/14 11:15	1

22.85

0.24

427

12.7

Degrees C

mg/L

NTU

uS/cm

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Date Received: 05/06/14 14:36

Turbidity

TestAmerica Job ID: 660-60510-1

2

Client Sample ID: TH-72
Date Collected: 05/06/14 12:33

1.22

Lab Sample ID: 660-60510-5

05/06/14 12:33

Matrix: Ground Water

Method: 300.0 - Anions, Ion Chro	matography								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	590		10	5.0	mg/L			05/13/14 16:39	20
- Method: 6010B - Metals (ICP) - To	otal Recoverat	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/07/14 08:54	05/08/14 09:24	1
Iron	640		200	50	ug/L		05/07/14 08:54	05/08/14 09:24	1
Sodium	230		0.50	0.31	mg/L		05/07/14 08:54	05/08/14 09:24	1
- General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	24		1.0	0.52	mg/L			05/08/14 08:46	20
Total Dissolved Solids	1400		25	25	mg/L			05/07/14 10:15	1
- Method: Field Sampling - Field S	ampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.81				SU			05/06/14 12:33	1
					_				
Field Temperature	23.50				Degrees C			05/06/14 12:33	1
•	23.50 0.46				Degrees C mg/L			05/06/14 12:33 05/06/14 12:33	1 1

NTU

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

05/07/14 12:07

05/07/14 12:07

-2

Client Sample ID: TH-75

Date Collected: 05/07/14 12:07

Date Received: 05/07/14 14:12

Specific Conductance

Turbidity

Lab Sample ID: 660-60541-1

uS/cm

NTU

Matrix: Water

Method: 300.0 - Anions, Ion Ch Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		0.50		mg/L			05/13/14 19:58	1
					· ·				
Method: 6010B - Metals (ICP) -	Total Recoverab	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6	I	10	4.0	ug/L		05/08/14 08:16	05/09/14 08:57	1
Iron	6100	J3	200	50	ug/L		05/08/14 08:16	05/09/14 08:57	1
Sodium	18		0.50	0.31	mg/L		05/08/14 08:16	05/09/14 08:57	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	1.8		0.050	0.026	mg/L			05/13/14 08:54	1
Total Dissolved Solids	200		5.0	5.0	mg/L			05/09/14 12:36	1
Method: Field Sampling - Field	l Sampling								
Analyte	. •	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.67				SU			05/07/14 12:07	1
Field Temperature	22.61				Degrees C			05/07/14 12:07	1
Oxygen, Dissolved	0.37				mg/L			05/07/14 12:07	4

341

3.01

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4 /

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Lab Sample ID: 660-60541-2

Client Sample ID: TH-74

Date Collected: 05/07/14 11:22
Date Received: 05/07/14 14:12

Matrix: Water

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92		2.0	1.0	mg/L			05/13/14 20:14	4
Method: 6010B - Metals (ICP) -	Total Recoverab	le							
Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/08/14 08:16	05/09/14 09:07	1
Iron	31000		200	50	ug/L		05/08/14 08:16	05/09/14 09:07	1
Sodium	40		0.50	0.31	mg/L		05/08/14 08:16	05/09/14 09:07	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	3.1		0.10	0.052	mg/L			05/13/14 10:03	2
Total Dissolved Solids	310		10	10	mg/L			05/09/14 12:36	1
- Method: Field Sampling - Field	l Sampling								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.56				SU			05/07/14 11:22	1
Field Temperature	22.06				Degrees C			05/07/14 11:22	1
Oxygen, Dissolved	0.57				mg/L			05/07/14 11:22	1
0	549				uS/cm			05/07/14 11:22	1
Specific Conductance	349				40/0111			00/07/11 11.22	

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Lab Sample ID: 660-60541-3

05/07/14 10:39

Matrix: Water

Date Collected: 05/07/14 10:39 Date Received: 05/07/14 14:12

Turbidity

Client Sample ID: TH-73

Method: 300.0 - Anions, Ion C	hromatography								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90		2.0	1.0	mg/L			05/13/14 21:30	4
Method: 6010B - Metals (ICP)	- Total Recoverab	ole							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/08/14 08:16	05/09/14 09:10	1
Iron	4000		200	50	ug/L		05/08/14 08:16	05/09/14 09:10	1
Sodium	31		0.50	0.31	mg/L		05/08/14 08:16	05/09/14 09:10	1
General Chemistry									
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	3.3		0.10	0.052	mg/L			05/13/14 10:03	2
Total Dissolved Solids	210		5.0	5.0	mg/L			05/09/14 12:36	1
- Method: Field Sampling - Field	d Sampling								
Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.05				SU			05/07/14 10:39	1
Field Temperature	25.59				Degrees C			05/07/14 10:39	1
Oxygen, Dissolved	1.13				mg/L			05/07/14 10:39	1
Specific Conductance	340				uS/cm			05/07/14 10:39	1

4.01

NTU

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-328824/2 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 328824

мв мв Result Qualifier PQL MDL Unit D Dil Fac Analyte Prepared Analyzed 0.50 05/13/14 12:34 Chloride 0.25 U 0.25 mg/L

Lab Sample ID: LCS 680-328824/3 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 328824

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 10.0 10.2 mg/L 102 90 - 110

Lab Sample ID: LCSD 680-328824/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 328824

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 10.0 10.2 102 mg/L

Lab Sample ID: 660-60510-5 MS Client Sample ID: TH-72 **Matrix: Ground Water** Prep Type: Total/NA

Analysis Batch: 328824

Sample Sample Spike MS MS %Rec. Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 590 200 790 ma/L 99 80 120

Lab Sample ID: 660-60510-5 MSD Client Sample ID: TH-72 **Matrix: Ground Water** Prep Type: Total/NA

Analysis Batch: 328824

Sample Sample Spike MSD MSD %Rec. RPD Added RPD Analyte Result Qualifier Result Qualifier Unit %Rec Limits Limit Chloride 590 200 80 - 120 792 mg/L 100 30

Lab Sample ID: MB 680-328853/24 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 328853

MB MB Result Qualifier PQL Analyte MDL Unit D Prepared Analyzed Dil Fac 0.50 Chloride 0.25 U 0.25 mg/L 05/13/14 17:40

Lab Sample ID: LCS 680-328853/25 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 328853

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

Lab Sample ID: LCSD 680-328853/26 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 328853

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 10.0 10.2 mg/L 102

101

80 - 120

Client Sample ID: TH-74

Client Sample ID: TH-74

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Client Sample ID: Matrix Spike

Prep Type: Total Recoverable

Prep Type: Total Recoverable

Client Sample ID: Matrix Spike Duplicate

Prep Batch: 148116

Prep Type: Total Recoverable

Prep Batch: 148116

Prep Type: Total/NA

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Lab Sample ID: 660-60541-2 MS

Matrix: Water

Prep Type: Total/NA Analysis Batch: 328853 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec

133

mg/L

40.0

92

Lab Sample ID: 660-60541-2 MSD

Matrix: Water

Chloride

Analysis Batch: 328853

Alialysis Balcii. 320033	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	92		40.0	133		mg/L		103	80 - 120	1	30

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 660-148116/1-A

Matrix: Water

Analysis Batch: 148159

MB	MB							
Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4.0	U	10	4.0	ug/L		05/07/14 08:54	05/08/14 08:24	1
50	U	200	50	ug/L		05/07/14 08:54	05/08/14 08:24	1
0.31	U	0.50	0.31	mg/L		05/07/14 08:54	05/08/14 08:24	1
	Result 4.0 50	Result Qualifier	Result Qualifier PQL 4.0 U 10 50 U 200	Result Qualifier PQL MDL 4.0 U 10 4.0 50 U 200 50	Result Qualifier PQL MDL Unit 4.0 U 10 4.0 ug/L 50 U 200 50 ug/L	Result Qualifier PQL MDL Unit D 4.0 U 10 4.0 ug/L 50 U 200 50 ug/L	Result Qualifier PQL MDL unit D ug/L Prepared 4.0 U 10 4.0 ug/L 05/07/14 08:54 50 U 200 50 ug/L 05/07/14 08:54	Result Qualifier PQL MDL unit D ug/L Prepared 05/07/14 08:54 Analyzed 05/08/14 08:24 50 U 200 50 ug/L 05/07/14 08:54 05/08/14 08:24

Lab Sample ID: LCS 660-148116/2-A

Matrix: Water

Analysis Batch: 148159							Prep	Batch: 148116
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Arsenic	1000	1030		ug/L		103	80 - 120	
Iron	1000	1060		ug/L		106	80 - 120	
Sodium	10.0	10.4		mg/L		104	80 - 120	

Lab Sample ID: 640-47760-A-1-B MS

Matrix: Water

Analysis Batch: 148159

-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	4.0	U	1000	1040		ug/L		104	80 - 120
Iron	970		1000	2040		ug/L		108	80 - 120
Sodium	0.86		10.0	11.1		mg/L		103	80 - 120

Lab Sample ID: 640-47760-A-1-C MSD

Matrix: Water

Analysis Batch: 148159								•	Prep	Batch: 1	48116
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	4.0	U	1000	1030		ug/L		103	80 - 120	1	20
Iron	970		1000	2050		ug/L		108	80 - 120	0	20
Sodium	0.86		10.0	11.0		mg/L		101	80 - 120	1	20

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

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

Lab Sample ID: MB 660-148149/1-A

Lab Sample ID: LCS 660-148149/2-A

Matrix: Water

Analysis Batch: 148192

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

Prep Batch: 148149

Prep Batch: 148149

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0	U	10	4.0	ug/L		05/08/14 08:16	05/09/14 08:08	1
Iron	50	U	200	50	ug/L		05/08/14 08:16	05/09/14 08:08	1
Sodium	0.31	U	0.50	0.31	mg/L		05/08/14 08:16	05/09/14 08:08	1

мв мв

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

Matrix: Water

Analysis Batch: 148192

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Arsenic 1000 1040 ug/L 104 80 - 120 1000 1070 ug/L 107 80 - 120 Iron Sodium 10.0 10.4 mg/L 104 80 - 120

Lab Sample ID: 660-60541-1 MS Client Sample ID: TH-75 **Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 148192 **Prep Batch: 148149**

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Arsenic 6.6 1000 1070 ug/L 106 80 - 120 6100 J3 1000 7190 ug/L 80 - 120 Iron 110 Sodium 18 10.0 28.7 mg/L 109 80 - 120

Lab Sample ID: 660-60541-1 MSD

Matrix: Water

Analysis Batch: 148192

Client Sample ID: TH-75 **Prep Type: Total Recoverable**

Prep Batch: 148149

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Arsenic	6.6	Ī	1000	1080		ug/L		108	80 - 120	1	20
Iron	6100	J3	1000	7300	J3	ug/L		121	80 - 120	2	20
Sodium	18		10.0	28.8		mg/L		110	80 - 120	0	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-328075/2

Matrix: Water

Analysis Batch: 328075

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

Analyte Result Qualifier PQL MDL Unit Prepared Analyzed Dil Fac Ammonia as N 0.026 U 0.050 0.026 mg/L 05/07/14 16:44

Lab Sample ID: LCS 680-328075/1 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

MR MR

Matrix: Water

Analysis Batch: 328075

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ammonia as N	1.00	0.948		mg/L	_	95	90 - 110	

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-60510-4 MS Matrix: Ground Water													Client San	nple ID: ype: To	
Analysis Batch: 328075													i icp i	, po. 10	Can IAP
,	Sample	Sam	ple	Spike		MS	MS						%Rec.		
Analyte	Result	Qual	ifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Ammonia as N	0.38			1.00		1.38			mg/L		_	100	90 - 110		
Lab Sample ID: 660-60510-4 MSD													Client San	nple ID:	TH-76
Matrix: Ground Water													Prep T	ype: To	tal/NA
Analysis Batch: 328075															
	Sample	Sam	ple	Spike		MSD	MSD						%Rec.		RPI
Analyte	Result	Qual	ifier	Added		Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
Ammonia as N	0.38			1.00		1.38			mg/L		_	100	90 - 110	0	30
Lab Sample ID: 660-60510-3 DU													Client San	nple ID:	TH-77
Matrix: Ground Water													Prep T	ype: To	tal/NA
Analysis Batch: 328075															
•	Sample	Sam	ple			DU	DU								RPE
Analyte	Result	Qual	ifier			Result	Qual	ifier	Unit		D			RPD	Limi
Ammonia as N	0.59					0.569			mg/L		_			3	30
Lab Sample ID: MB 680-328799/50												Client	Sample ID:	Method	Blank
Matrix: Water													Prep T	ype: To	tal/NA
Analysis Batch: 328799															
-		MB	MB												
Analyte	Re	esult	Qualifier		PQL		MDL	Unit		D	P	repared	Analyz	ed	Dil Fac
Ammonia as N	0	.026	U		0.050		0.026	mg/L					05/13/14	10:32	1
Lab Sample ID: LCS 680-328799/32										CI	ient	Sample	e ID: Lab Co	ontrol S	ample
-															tal/NA

Lab Sample ID: LCS 680-328799/32					Cilent	Sample	ID: Lab Co	ontroi Sampie	,
Matrix: Water							Prep T	ype: Total/NA	L
Analysis Batch: 328799									
	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ammonia as N	1.00	0.943		mg/L		94	90 - 110		•

Lab Sample ID: 640-47821-F-2 MS

Matrix: Water

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

Analysis Batch: 328799

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ammonia as N	11	J3	1.00	12.0	J3	mg/L	_	64	90 - 110	

Lab Sample ID: 640-47821-F-2 MSD Matrix: Water Analysis Batch: 328799							Client S	lient Sample ID: Matrix Spike Duplicate Prep Type: Total/NA			
Analyte	•	Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia as N		J3	1.00	11.8		mg/L		48	90 - 110	1	30
Lah Sample ID: 640-47821 E-3	: DII							Cli	ont Sample	ID: Dur	dicato

Lab Sample ID: 640-47821-F-3 DU Client Sample ID: Duplicate **Matrix: Water** Prep Type: Total/NA Analysis Batch: 328799 Sample Sample DU DU RPD Limit Result Qualifier Result Qualifier Unit RPD Ammonia as N 11 10.7 mg/L

Client Sample ID: Method Blank

Prep Type: Total/NA

Client Sample ID: TH-75

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Lab Sample ID: MB 680-328800/18

Matrix: Water

Analysis Batch: 328800

MB MB

Result Qualifier PQL MDL Unit Analyte D Analyzed Dil Fac Prepared 0.050 05/13/14 09:03 0.026 U 0.026 mg/L Ammonia as N

Lab Sample ID: LCS 680-328800/24 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 328800

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limite Unit D Ammonia as N 1.00 0.943 mg/L 90 - 110

Lab Sample ID: 680-101050-C-1 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 328800

Spike MS MS %Rec. Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Ammonia as N 0.65 J3 1.00 0.713 J3 mg/L

Lab Sample ID: 680-101050-C-1 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 328800

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limit Ammonia as N 0.65 1.00 0.725 mg/L 90 - 110 30

Lab Sample ID: 660-60541-1 DU

Matrix: Water

Analysis Batch: 328800

DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier Unit RPD Limit 1.8 1.82 Ammonia as N 30 mg/L

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

Lab Sample ID: MB 660-148122/1

Matrix: Water

Analysis Batch: 148122

MB MB

PQL Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac Total Dissolved Solids 5.0 50 U 5.0 mg/L 05/07/14 10:15

Lab Sample ID: LCS 660-148122/2

Matrix: Water

Analysis Batch: 148122

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

QC Sample Results

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

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

Alialysis Balcii. 140122	Comple Comple	DII DII	PDD
Analysis Batch: 148122			
Matrix: Ground Water			Prep Type: Total/NA
Lab Sample ID: 660-60510-5 DU			Client Sample ID: TH-72

	Sample	Sample	DU	טט				KPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit	
Total Dissolved Solids	1400		1340		mg/L		 3	20	

Lab Sample ID: MB 660-148198/1

Matrix: Water

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

Analysis Batch: 148198

MB MB

	5								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			05/09/14 12:36	1

Lab Sample ID: LCS 660-148198/2

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 148198

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	10000	9970		mg/L		100	80 - 120	

Lab Sample ID: 660-60541-2 DU

Matrix: Water

Client Sample ID: TH-74

Prep Type: Total/NA

Analysis Batch: 148198

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	310		328		mg/L		5	20

TestAmerica Job ID: 660-60510-1

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

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Analysis Batch: 328824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60510-1	DUPLICATE NOT BLANK	Total/NA	Ground Water	300.0	
660-60510-2	BLANK FIELD	Total/NA	Ground Water	300.0	
660-60510-3	TH-77	Total/NA	Ground Water	300.0	
660-60510-4	TH-76	Total/NA	Ground Water	300.0	
660-60510-5	TH-72	Total/NA	Ground Water	300.0	
660-60510-5 MS	TH-72	Total/NA	Ground Water	300.0	
660-60510-5 MSD	TH-72	Total/NA	Ground Water	300.0	
LCS 680-328824/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-328824/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-328824/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 328853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60541-1	TH-75	Total/NA	Water	300.0	_
660-60541-2	TH-74	Total/NA	Water	300.0	
660-60541-2 MS	TH-74	Total/NA	Water	300.0	
660-60541-2 MSD	TH-74	Total/NA	Water	300.0	
660-60541-3	TH-73	Total/NA	Water	300.0	
LCS 680-328853/25	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-328853/26	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-328853/24	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 148116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47760-A-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
640-47760-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
660-60510-1	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	3005A	
660-60510-2	BLANK FIELD	Total Recoverable	Ground Water	3005A	
660-60510-3	TH-77	Total Recoverable	Ground Water	3005A	
660-60510-4	TH-76	Total Recoverable	Ground Water	3005A	
660-60510-5	TH-72	Total Recoverable	Ground Water	3005A	
LCS 660-148116/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-148116/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 148149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
660-60541-1	TH-75	Total Recoverable	Water	3005A	
660-60541-1 MS	TH-75	Total Recoverable	Water	3005A	
660-60541-1 MSD	TH-75	Total Recoverable	Water	3005A	
660-60541-2	TH-74	Total Recoverable	Water	3005A	
660-60541-3	TH-73	Total Recoverable	Water	3005A	
LCS 660-148149/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-148149/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 148159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47760-A-1-B MS	Matrix Spike	Total Recoverable	Water	6010B	148116
640-47760-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	148116

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TestAmerica Job ID: 660-60510-1

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Metals (Continued)

Analysis Batch: 148159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60510-1	DUPLICATE NOT BLANK	Total Recoverable	Ground Water	6010B	148116
660-60510-2	BLANK FIELD	Total Recoverable	Ground Water	6010B	148116
660-60510-3	TH-77	Total Recoverable	Ground Water	6010B	148116
660-60510-4	TH-76	Total Recoverable	Ground Water	6010B	148116
660-60510-5	TH-72	Total Recoverable	Ground Water	6010B	148116
LCS 660-148116/2-A	Lab Control Sample	Total Recoverable	Water	6010B	148116
MB 660-148116/1-A	Method Blank	Total Recoverable	Water	6010B	148116

Analysis Batch: 148192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60541-1	TH-75	Total Recoverable	Water	6010B	148149
660-60541-1 MS	TH-75	Total Recoverable	Water	6010B	148149
660-60541-1 MSD	TH-75	Total Recoverable	Water	6010B	148149
660-60541-2	TH-74	Total Recoverable	Water	6010B	148149
660-60541-3	TH-73	Total Recoverable	Water	6010B	148149
LCS 660-148149/2-A	Lab Control Sample	Total Recoverable	Water	6010B	148149
MB 660-148149/1-A	Method Blank	Total Recoverable	Water	6010B	148149

General Chemistry

Analysis Batch: 148122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60510-1	DUPLICATE NOT BLANK	Total/NA	Ground Water	SM 2540C	_
660-60510-2	BLANK FIELD	Total/NA	Ground Water	SM 2540C	
660-60510-3	TH-77	Total/NA	Ground Water	SM 2540C	
660-60510-4	TH-76	Total/NA	Ground Water	SM 2540C	
660-60510-5	TH-72	Total/NA	Ground Water	SM 2540C	
660-60510-5 DU	TH-72	Total/NA	Ground Water	SM 2540C	
LCS 660-148122/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-148122/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 148198

Lab Sample ID	Client Sample ID	Prep Type		Method	Prep Batch
660-60541-1 TH-75		Total/NA	Water	SM 2540C	
660-60541-2	TH-74	Total/NA	Water	SM 2540C	
660-60541-2 DU	TH-74	Total/NA	Water	SM 2540C	
660-60541-3	TH-73	Total/NA	Water	SM 2540C	
LCS 660-148198/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 660-148198/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 328075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60510-1	DUPLICATE NOT BLANK	Total/NA	Ground Water	350.1	
660-60510-3	TH-77	Total/NA	Ground Water	350.1	
660-60510-3 DU	TH-77	Total/NA	Ground Water	350.1	
660-60510-4	TH-76	Total/NA	Ground Water	350.1	
660-60510-4 MS	TH-76	Total/NA	Ground Water	350.1	
660-60510-4 MSD	TH-76	Total/NA	Ground Water	350.1	
660-60510-5	TH-72	Total/NA	Ground Water	350.1	
LCS 680-328075/1	Lab Control Sample	Total/NA	Water	350.1	

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QC Association Summary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

General Chemistry (Continued)

Analysis Batch: 328075 (Continued)

		Prep Type	Matrix	Method	Prep Batch
MB 680-328075/2	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 328799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-47821-F-2 MS Matrix Spike		Total/NA	Water	350.1	<u> </u>
640-47821-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
640-47821-F-3 DU	Duplicate	Total/NA	Water	350.1	
660-60510-2	BLANK FIELD	Total/NA	Ground Water	350.1	
LCS 680-328799/32	Lab Control Sample	Total/NA	Water	350.1	
MB 680-328799/50	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 328800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60541-1	TH-75	Total/NA	Water	350.1	
660-60541-1 DU	TH-75	Total/NA	Water	350.1	
660-60541-2	TH-74	Total/NA	Water	350.1	
660-60541-3	TH-73	Total/NA	Water	350.1	
680-101050-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
680-101050-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	
LCS 680-328800/24	Lab Control Sample	Total/NA	Water	350.1	
MB 680-328800/18	Method Blank	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 148132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60510-3	TH-77	Total/NA	Ground Water	Field Sampling	
660-60510-4	TH-76	Total/NA	Ground Water	Field Sampling	
660-60510-5	TH-72	Total/NA	Ground Water	Field Sampling	

Analysis Batch: 148218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-60541-1	TH-75	Total/NA	Water	Field Sampling	
660-60541-2	TH-74	Total/NA	Water	Field Sampling	
660-60541-3	TH-73	Total/NA	Water	Field Sampling	

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TestAmerica Job ID: 660-60510-1

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Lab Sample ID: 660-60510-1

Matrix: Ground Water

Client Sample ID: DUPLICATE NOT BLANK

Date Collected: 05/06/14 00:00 Date Received: 05/06/14 14:36

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0			328824	05/13/14 15:38	DAS	TAL SAV
Total Recoverable	Prep	3005A			148116	05/07/14 08:54	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148159	05/08/14 09:10	GAF	TAL TAM
Total/NA	Analysis	350.1		1	328075	05/08/14 08:37	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148122	05/07/14 10:15	TKO	TAL TAM

Lab Sample ID: 660-60510-2

Matrix: Ground Water

Client Sample ID: BLANK FIELD Date Collected: 05/06/14 09:58

Date Received: 05/06/14 14:36

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328824	05/13/14 15:53	DAS	TAL SAV
Total Recoverable	Prep	3005A			148116	05/07/14 08:54	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148159	05/08/14 09:14	GAF	TAL TAM
Total/NA	Analysis	350.1		1	328799	05/13/14 08:45	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148122	05/07/14 10:15	TKO	TAL TAM

Client Sample ID: TH-77 Lab Sample ID: 660-60510-3 Date Collected: 05/06/14 10:09 **Matrix: Ground Water**

Date Received: 05/06/14 14:36

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0			328824	05/13/14 16:08	DAS	TAL SAV
Total Recoverable	Prep	3005A			148116	05/07/14 08:54	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148159	05/08/14 09:17	GAF	TAL TAM
Total/NA	Analysis	350.1		1	328075	05/07/14 16:44	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148122	05/07/14 10:15	TKO	TAL TAM
Total/NA	Analysis	Field Sampling		1	148132	05/06/14 10:09		TAL TAM

Client Sample ID: TH-76 Lab Sample ID: 660-60510-4 Date Collected: 05/06/14 11:15 **Matrix: Ground Water**

Date Received: 05/06/14 14:36

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0			328824	05/13/14 16:24	DAS	TAL SAV
Total Recoverable	Prep	3005A			148116	05/07/14 08:54	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148159	05/08/14 09:20	GAF	TAL TAM
Total/NA	Analysis	350.1		1	328075	05/07/14 16:44	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148122	05/07/14 10:15	TKO	TAL TAM
Total/NA	Analysis	Field Sampling		1	148132	05/06/14 11:15		TAL TAM

TestAmerica Tampa

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TestAmerica Job ID: 660-60510-1

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Client Sample ID: TH-72

Lab Sample ID: 660-60510-5

Date Collected: 05/06/14 12:33 **Matrix: Ground Water** Date Received: 05/06/14 14:36

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		20	328824	05/13/14 16:39	DAS	TAL SAV
Total Recoverable	Prep	3005A			148116	05/07/14 08:54	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148159	05/08/14 09:24	GAF	TAL TAM
Total/NA	Analysis	350.1		20	328075	05/08/14 08:46	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148122	05/07/14 10:15	TKO	TAL TAM
Total/NA	Analysis	Field Sampling		1	148132	05/06/14 12:33		TAL TAM

Client Sample ID: TH-75 Lab Sample ID: 660-60541-1

Date Collected: 05/07/14 12:07 **Matrix: Water**

Date Received: 05/07/14 14:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	328853	05/13/14 19:58	DAS	TAL SAV
Total Recoverable	Prep	3005A			148149	05/08/14 08:16	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148192	05/09/14 08:57	GAF	TAL TAM
Total/NA	Analysis	350.1		1	328800	05/13/14 08:54	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148198	05/09/14 12:36	TKO	TAL TAM
Total/NA	Analysis	Field Sampling		1	148218	05/07/14 12:07		TAL TAM

Client Sample ID: TH-74 Lab Sample ID: 660-60541-2 Date Collected: 05/07/14 11:22 Matrix: Water

Date Received: 05/07/14 14:12

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		4	328853	05/13/14 20:14	DAS	TAL SAV
Total Recoverable	Prep	3005A			148149	05/08/14 08:16	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148192	05/09/14 09:07	GAF	TAL TAM
Total/NA	Analysis	350.1		2	328800	05/13/14 10:03	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148198	05/09/14 12:36	TKO	TAL TAM
Total/NA	Analysis	Field Sampling		1	148218	05/07/14 11:22		TAL TAM

Client Sample ID: TH-73 Lab Sample ID: 660-60541-3 Date Collected: 05/07/14 10:39

Date Received: 05/07/14 14:12

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		4	328853	05/13/14 21:30	DAS	TAL SAV
Total Recoverable	Prep	3005A			148149	05/08/14 08:16	ALQ	TAL TAM
Total Recoverable	Analysis	6010B		1	148192	05/09/14 09:10	GAF	TAL TAM
Total/NA	Analysis	350.1		2	328800	05/13/14 10:03	JME	TAL SAV
Total/NA	Analysis	SM 2540C		1	148198	05/09/14 12:36	TKO	TAL TAM

TestAmerica Tampa

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Matrix: Water

Lab Chronicle

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells TestAmerica Job ID: 660-60510-1

Lab Sample ID: 660-60541-3

Matrix: Water

Date Collected: 05/07/14 10:39 Date Received: 05/07/14 14:12

Client Sample ID: TH-73

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	148218	05/07/14 10:39		TAL TAM

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Method Summary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

Method Description

Nitrogen, Ammonia

Anions, Ion Chromatography

Solids, Total Dissolved (TDS)

TestAmerica Job ID: 660-60510-1

TAL TAM

TAL TAM

Proto	col	Laboratory
MCAV	VW	TAL SAV
SW84	6	TAL TAM
MCAV	VW	TAL SAV

SM

EPA

Protocol References:

Method

300.0

6010B

350.1

SM 2540C

Field Sampling

EPA = US Environmental Protection Agency

Field Sampling

Metals (ICP)

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

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

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

Laboratory References:

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

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

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Certification Summary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Laboratory: TestAmerica Tampa

The certifications listed below are applicable to this report.

Florida NELAP 4 E84282 06-30-14	Authority	Program	EPA Region	Certification ID	Expiration Date
	Florida	NELAF	4		00-00-1 -1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-15
A2LA	ISO/IEC 17025		399.01	02-28-15
Alabama	State Program	4	41450	06-30-14 *
Arkansas DEQ	State Program	6	88-0692	01-31-15
California	NELAP	9	3217CA	07-31-14
Colorado	State Program	8	N/A	12-31-14
Connecticut	State Program	1	PH-0161	03-31-15
Florida	NELAP	4	E87052	06-30-14 *
GA Dept. of Agriculture	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	N/A	06-30-14 *
Georgia	State Program	4	803	06-30-14 *
Guam	State Program	9	09-005r	04-16-15
Hawaii	State Program	9	N/A	06-30-14 *
Illinois	NELAP	5	200022	11-30-14
Indiana	State Program	5	N/A	06-30-14 *
lowa	State Program	7	353	07-01-15
Kentucky (DW)	State Program	4	90084	12-31-14
Kentucky (UST)	State Program	4	18	06-30-14 *
Louisiana	NELAP	6	LA100015	12-31-14
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-14
Massachusetts	State Program	1	M-GA006	06-30-14 *
Michigan	State Program	5	9925	06-30-14 *
Mississippi	State Program	4	N/A	06-30-14 *
Montana	State Program	8	CERT0081	01-01-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-14 *
New Jersey	NELAP	2	GA769	06-30-14 *
New Mexico	State Program	6	N/A	06-30-14 *
New York	NELAP	2	10842	03-31-15
North Carolina DENR	State Program	4	269	12-31-14
North Carolina DHHS	State Program	4	13701	07-31-14
Oklahoma	State Program	6	9984	08-31-14
Pennsylvania	NELAP	3	68-00474	06-30-14 *
Puerto Rico	State Program	2	GA00006	12-31-14
South Carolina	State Program	4	98001	06-30-14 *
Tennessee	State Program	4	TN02961	06-30-14 *
Texas	NELAP	6	T104704185-08-TX	11-30-14
USDA	Federal		SAV 3-04	04-07-14 *
Virginia	NELAP	3	460161	06-14-14 *
Washington	State Program	10	C805	06-10-14 *
West Virginia DEP	State Program	3	94	06-30-14 *
West Virginia DHHR	State Program	3	9950C	12-31-14
Wisconsin	State Program	5	999819810	08-31-14

 $[\]ensuremath{^{\star}}$ Expired certification is currently pending renewal and is considered valid.

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Certification Summary

Client: Hillsborough Co Public Utilities Dept Project/Site: SELF IAMP Monitoring Wells

TestAmerica Job ID: 660-60510-1

Laboratory: TestAmerica Savannah (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Wyoming	State Program	8	8TMS-L	06-30-14 *

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

TestAmerica Tampa

Test/	Americ		SIS REQUEST AND	CHAIN OF CUSTOD	Y RE	co			0	6712 Tam	America Benjam pa, FL 33 nate Lab	in Rd, 8634	Suite		 	Phone:	stamericai (813) 885 3) 885 70	7427
FRE EXACTOR O	the state of the sent	ea							Ó	Aitei	nate Lab	orator	y Man	ie/LO	. 1	Phone:		
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NT (SITE) PI			(813) 663-3222	(813) 274-6801	GRAB (G) INDICATE		VENT	_					T		1 1	EXP	DATE DUE "	π
TNAME	Salary Arms		CLIENT EMAIL		9		SOL	9-		m	a a			1		DEL	CHARGE)	0
s. County	y Public Utiliti	es	townselm@hillsbo	roughcounty.org	RAB ((OIL,	non		oride	, P	1				(SUF	DATE CUE	_
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	alkenburg Ro		SAMPLER'S SIGNATURE	del their	COMPOSITE (C) OR	SOLID OR SEMISOLID	AIR NONAQUEOUS LIQŲD (OIL, SOLVENT	H2SO4 Ammonia-N	. 8	98	. 80						IBER OF COOL	
	PLE		SAMPLE IDENTIF	TICATION	OMPC	OLD (AIR				R OF CON	TAINE	RS SUE	MITTE	D		REM	ARKS
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INQUISE	LE PATRICE	TURE)	5-6-14 TIME .	6 REMINOUISHED BY	Y: (SIGI	VŢŅ	RE)		DATE		TIME	RĘL	INQUIS	HED E	BY: (SIGNA	ATURE)	DATE	TIME
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10	V V		S 1817 1		LABO	RAT	ORY U	SE O	VLY	_								
CEIVED F	OR LABORAT	ORY BY:	DATE TIME	CUSTODY INTACT	CU	STO AL N	DY.		OG NO		LABORAT	1			m-0.	7		

DEP-SOP-001/01 FS 2200 Groundwater Sampling

Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME:	Southe	east County	/ Landfill	IAMP	100	TE CATION:	Lith	nia, Florida			
WELL NO:				SAMPLE					DATE: 5-(6-14	
					PURC	ING DA	TA		15307		
WELL VOL	(inches): 2 UME PURGE: if applicable)	TUBING DIAMET 1 WELL VOL	ER (inches):	0.5 DEI	LL SCREEN PTH: 180 fe	INTERVAL set to 190 fee	STATIC DI TO WATE O WATER) X	R (feet): 100	.15 ORE	GEPUMPTY BAILER: DE	3P
	IT VOLUME PI if applicable)	JRGE: 1 EQUI		= PUMP VOI		ING CAPACIT		BING LENGTH)	+ FLOW CEI		
	MP OR TUBIN	G 189	FINAL PUM DEPTH IN V	P OR TUBING		T mumous		Purcuio	12.33	TOTAL VOL PURGED (g	UME 22 -
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND μS/cm	DISSOLVED OXYGEN mg/L	TURBIDIT (NTUs)		OR ODOR
12.17	14.5	14.5	.50	100.15	6.80	23.52	2223	.44	4.46	NON	e none
12.25	4.0	18.5	.50	100.15	6.81	23.55	2237	.76	1.79	1	1
12.33	4.0	<i>a</i> 2.5	,50	100.15	6.81	23.50	2247	.46	1.22	1	1
/		/)		/		_)
	7										
			/	/			/	_/	1		1 -
								/_			
WELL CAP	ACITY (Gallon ISIDE DIA. CAI	s Per Foot) 0. PACITY (Gal /F	75" = 0.02; t.): 1/8" = 0.0	1" = 0.04, 0006; 3/16'	1.25" = 0.00 " = 0.0014;	6; 2" = 0.10 1/4" = 0.002	3" = 0.37; 8; 5/16" = 0.0		5" = 1.02; .006; 1/2"		12" = 5.88 5/8" = 0 016
PURGING	EQUIPMENT O	ODES: B	Bailer; E	BP = Bladder I		and the second	Submersible Pun	np; PP = Po	eristaltic Pump	o; O = O	ther (Specify)
	BY (PRINT) / A	FFILIATION,		SAMPLER(S)		LING DA	1/11	SAMPLING	12 25	SAMPLIN	G 12 115
		CKFATTERSC		TUDINO	може	Jour	ettesen	INITIATED AT	-		T: 12.45
PUMP OR	WELL (feet):	189		TUBING MATERIAL C	ODF: T			FILTERED. Y n Equipment Ty		FILTER S	IZE·μm
	ONTAMINATIO			Dedicated		Y N (edicated)	DUPLICATE:		(N)	
SAME	PLE CONTAINE	R SPECIFICAT				RESERVATION	N	INTENDE	ED S	AMPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL		PRESERVAT USED	TVE 1	TOTAL VOL ED IN FIELD (r	FINAL	ANALYSIS AI METHO		CODE	FI.OW RATE (mL per minute)
	*			-0.0						1 400	
	10.11						1 -				
				1							
					- (= 3						
SEE C	.O.C. FO	R SAMP	LE ANA	LYSIS	DBP =D	edicated Blad	dder Pumn	l-			6965 C.I.
MATERIAL		AG = Amber G					PP = Polypropyle	ene; S = Silico	one; T = Te	flon; O = C	Other (Specify)
	EQUIPMENT	CODES: A	PP = After Per	ristaltic Pump:	B = Bai	ler; BP=	Bladder Pump; Method (Tubing 6	ESP = Electr	ic Submersible	e Pump;	A. C. L. L. A.
OTFS: 1	The above		200				er 62-160, F.A.			1-6	

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

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

SITE	South	neast Cou	nty Landfill	IAMD	100	TE CATEION.	Lithia, Fl	orida			
NAME: WELL NO:	00.00	least Cou	nty Landin	SAMPLE		OCATION:	Littia, Fi	Jilua	DATE:	e	
WELL NO:	TH-70			SAMPLE	0.00	NINO DAT	r a		DATE: 3	5-6-14	ada atticipens
WELL	R (inches): 2 LUME PURGE:	TUBING DIAMETER	R (Inches): 0.5	163.35	REEN INTE	GING DATERVAL DEPTH 178.35 fee	ST	ATIC DEPTH WATER (feet):	80.44 PU	RGE PUMP TY BAILER: DE	
(only fill out	t if applicable)		= (178.35	feet -	80.41	feet)		gallons/f	foot = 15,	67 gallor
	if applicable)	JUNEAU TERRO	William FOR		illons + (ns/foot X		et) +	gallons :	= gallons
St. Nelson (Inc.) No.	MP OR TUBING WELL (feet):	G 177,35	FINAL PUMI DEPTH IN V	OR TUBING		DUDOING		DUDOING	1110		UME 24.3
TIME	VOLUME PURGED (gallons)	CUMUL, VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP, (°C)	COND. µS/cm	DISSOLVEI OXYGEN mg/L	TURBIDI (NTUs		oe) (describe)
10.59	15.90	15,90	.53	81.50	7.56	22.82	428	. 28	12.8	clour	
14.07	4.24	20.14	.53	81.50	7.56	22.83	427	.20	12.8		1
11.15	4.24	24.38	.53	81,50	7.56	22.85	427	. 24	12.7	4	4
		/			7		/	1)			}
-		/			/-		/	1/			
			/					/		/	
			/	/		/		/	/		
	1			- 1			- 1	٠,	1	1/	-
	1			-	-	-	- (-	+	
TUBING IN	PACITY (Gallons	ACITY (Gal./	t) 1/8" = 0.0	006: 3/16"	= 0.0014;	6, 2" = 0 16 1/4" = 0.0026	; 5/16" =	0.004; 3/8"		2" = 0.010;	12" = 5.88 5/8" = 0.016
PURGING	EQUIPMENT C	ODES: B	= Bailer; B	P = Bladder P		SP = Electric S		ump; PP=	Peristaltic Pur	np; $\mathbf{O} = \mathbf{O}t$	her (Specify)
	BY (PRINT) / A BALLOON / ZAC			SAMPLER(S)			dition	SAMPLING	AT: 11:15	SAMPLING ENDED A	G 11.27
PUMP OR DEPTH IN		177.35		TUBING MATERIAL CO	DDE; T	1		D-FILTERED:	Y (N)		ZE:μm
FIELD DEC	ONTAMINATIO	N: PUMP		edicated	TUBING	YN	Dedicated	DUPLICAT	E: Y	(1)	
SAME	PLE CONTAINE	R SPECIFICA	TION		SAMPLE P	RESERVATION		INTEN	DED	SAMPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME 1	PRESERVATI USED		TOTAL VOL DED IN FIELD	(mL) FIN	METI		CODE	FLOW RATE (mL per minute)
		+								-	
								-		-	
						/					
					1						
SEE C	.O.C. FO	RSAME	PIFANA	LYSIS	DED = Dod	eated bladden	numn	J	- La-		
MATERIAL		AG = Amber	0-11-11-11	Clear Glass;			pump P = Polyprop	vlene: 8 = SI	icone; T = T	eflon: $\Omega = \Omega$	ther (Specify)
	EQUIPMENT	CODES: A	APP = After Peri	static Pump;	B = Ba	ller; BP = E	Bladder Pump		ctric Submersi		Johanni
TES: 1.	The above of			and the second second						, /= 6==u/l	

2. <u>STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01 FS 2200 Groundwater Sampling

Form FD 9000-24 **GROUNDWATER SAMPLING LOG**

	Sout	heast Cour	nty Landfil	I IAMP	1 1	TE DCATION:.	Lithia, Flo	orida			
WELL NO.	TH-77			SAMPLE	JD;				DATE: 5-	6-14	
					PURC	ING DA	ΓA				
WELL VOL	(inches): 2 UME PURGE: if applicable)	TUBING DIAMETER WELL VOL	(Inches): 0. UME = (TOTA	5 154.2	feet to	ERVAL DEPT 169.2 feet TIC DEPTH TO		R (feet): 88.	96 ORE	GE PUMP TYPE BAILER DBP	
(Only In our	11 abbiloopic)		= (169.2 fee	et –	88.96	feet) X	.16	gallons/foot	A CONTRACTOR OF THE PARTY OF TH	
	IT V ₃ OLUME Pi if applicable)	URGE; 1 EQUI	IPMENT VOL		UME + (TUE illons + (ING CAPACIT		JBING LENGTH		L VOLUME gallons =	ġallons
	MP OR TUBIN WELL (feet):	168.2		IP OR TUBING NELL (feet):	168.2	PURGING INITIATE	G D AT. 9:30	PURGING ENDED AT:	10.09	TOTAL VOLUM PURGED (gallo	Ens): 20.6
TIME	VOLUME PURGED (galons)	CUMUL. VOLUME PURGED (gal ons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	oH (standard units)	TEMP. (°C)	COND. μS/cm	DJSSOLVED OXYGEN mg/L	TURBIDITY (NTUs)	all the real are to	ODOR (describe
9.55	13.25	13.25	.53	89.44	7.53	23.45	416	.48	1.0	NONE	NONE
10.02	3.71	16.96	,53	89.45	7.51	23,46	415	.39	-88	1	1
10.09	3.71	20.67	, 53	84.46	7.52	23,47	414	.34	1.01	V	V
/	_			-					-		
-/		/	-/				-	· · · · ·			11-
		/	-/	-	-/				/		1
-+-			-/-				/		/		/
			/	/			-/		/		A
			/								
						+		/			
WELL CAP	ACITY (Gallon	s Per Foot): 0.	.75" = 0.02;	1" = 0.04;	1.25" = 0 0	6; 2" = 0.16	6; 3" = 0.37;	4" = 0.65;	5" = 1.02, (3" = 1.47, 12"	= 5.88
	CIDE DIA CAL		(t.) $1/8$ $= 0.0$	7 8 1 1 1 1 1 1 1 1		1/4" = 0.0026					= 0.016
			- Dollar F	ID - Dioddox D		CD - Classina C	Submanuallala Dem	mm - m		U = Other	(Canada)
	EQUIPMENT C		= Bailer; E	3P = Bladder F		SP = Electric S		mp; PP = P	chatanic i drip		(Specify)
PURGING I	EQUIPMENT O	ODES: B		SAMPLER(S)	SAMP	LING DA		SAMPLING	10.40	SAMPLING ENDED AT,	
SAMPLED I ANDREW E	EQUIPMENT O BY (PRINT) / A BALLOON / ZA TUBING	ODES: BE	DN	SAMPLER(S) TUBING	SAMP SIGNATURI	LING DA	Alliasn FIELD	SAMPLING INITIATED A	T: 10.09	L CAMPI DIO	10,20
PURGING E SAMPLED I ANDREW E PUMP OR T DEPTH IN 1	EQUIPMENT O BY (PRINT) / A IALLOON / ZA I'UBING WELL (feet)	EODES: BE EFILIATION: CK PATTERSO 168.2	ON .	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURI DDE; T	LING DA	Alivasur FIELD- Filtratio	SAMPLING INITIATED A FILTERED: You Equipment Ty	T: 10.09	SAMPLING ENDED AT, FILTER SIZE:	10,20
SAMPLED I ANDREW E PUMP OR T DEPTH IN N	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA L'UBING WELL (feet) ONTAMINATIO	EODES: BE EFILIATION: CK PATTERSO 168.2 DN: PUMP	on Y N C	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURI DDE: T	LING DA	History File Lo- Filtratic Dedicated	SAMPLING INITIATED A FILTERED: You Equipment Ty DUPLICATE	T: 10.09	SAMPLING ENDED AT, FILTER SIZE:	10, 20 µm
PURGING IS SAMPLED I ANDREW E PUMP OR T DEPTH IN N	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA L'UBING WELL (feet) ONTAMINATION	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICAT	ON Y N C	SAMPLER(S) TUBING MATERIAL CO	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	LING DA	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 20
SAMPLED I ANDREW E PUMP OR T DEPTH IN N FIELD DEC SAMPLE	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA FUBING WELL (feet) ONTAMINATION LE CONTAINE	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA' MATERIAL	Y N C	SAMPLER(S) TUBING MATERIAL CO Dedicated	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	E(S) Joseph Miles Property Control Color C	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 20
SAMPLED I ANDREW E PUMP OR T DEPTH IN N FIELD DEC SAMPLE	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA FUBING WELL (feet) ONTAMINATION LE CONTAINE	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA' MATERIAL	Y N C	SAMPLER(S) TUBING MATERIAL CO Dedicated	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	E(S) Joseph Miles Property Control Color C	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 20
SAMPLED I ANDREW E PUMP OR T DEPTH IN N FIELD DEC SAMPLE	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA FUBING WELL (feet) ONTAMINATION LE CONTAINE	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA' MATERIAL	Y N C	SAMPLER(S) TUBING MATERIAL CO Dedicated	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	E(S) Joseph Miles Property Control Color C	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	10, 20 µm
SAMPLED I ANDREW E PUMP OR T DEPTH IN N FIELD DEC SAMPLE	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA FUBING WELL (feet) ONTAMINATION LE CONTAINE	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA' MATERIAL	Y N C	SAMPLER(S) TUBING MATERIAL CO Dedicated	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	E(S) Joseph Miles Property Control Color C	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 20
SAMPLED I ANDREW E PUMP OR T DEPTH IN N FIELD DEC SAMPLE	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA FUBING WELL (feet) ONTAMINATION LE CONTAINE	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA' MATERIAL	Y N C	SAMPLER(S) TUBING MATERIAL CO Dedicated	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	E(S) Joseph Miles Property Control Color C	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 20
SAMPLED I ANDREW E PUMP OR T DEPTH IN N FIELD DEC SAMPLE	EQUIPMENT OF BY (PRINT) / A ALLOON / ZA FUBING WELL (feet) ONTAMINATION LE CONTAINE	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA' MATERIAL	Y N C	SAMPLER(S) TUBING MATERIAL CO Dedicated	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR	E(S) Joseph Miles Property Control Color C	FIELD-Filtratic Dedicated	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 20
SAMPLED I ANDREW E PUMP OR T DEPTH IN A FIELD DEC SAMPLE ID CODE	BY (PRINT) / A ALLOON / ZA TUBING WELL (feet) ONTAMINATIO LE CONTAINE # CONTAINERS	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICAT MATERIAL CODE	Y N (TION VOLUME	SAMPLER(S) TUBING MATERIAL CO Dedicated PRESERVATI USED	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR IVE ADDE	E(S) GYN RESERVATION TOTAL VOL D IN FIELD (n	FIELD-Filtratic Dedicated N FINAL pH	SAMPLING INITIATED A FILTERED: Y on Equipment Ty DUPLICATE INTEND	T: 10.09 /pe: ED SA ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE:	IO, 2C
SAMPLED IN ANDREW E PUMP OR TOP THE IN A FIELD DEC SAMPLE ID CODE SEE C	BY (PRINT) / A BALLOON / ZA PUBLING WELL (feet) ONTAMINATION LE CONTAINE # CONTAINERS	FILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA MATERIAL CODE	Y N COTION VOLUME	SAMPLER(S) TUBING MATERIAL CO Dedicate PRESERVATI USED	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR VE ADDE	EING DA	FIELD-Filtratic Dedicated N FINAL. pH	SAMPLING INITIATED A FILTERED: You Equipment Ty DUPLICATE INTEND ANALYSIS A METHO	T: 10.09 /pe: ED S/ ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE: AMPLING SA UIPMENT CODE (m	MPLE PUMI LOW RATE L per minute
SAMPLED IN ANDREW BETTER IN A SAMPLE ID CODE	BY (PRINT) / A BALLOON / ZA PUBLING WELL (feet) ONTAMINATION LE CONTAINE # CONTAINERS	FFILIATION: CK PATTERSO 168.2 DN: PUMP ER SPECIFICA MATERIAL CODE PR SAMP AG = Amber G	Y N (TION VOLUME PLE ANA Blass; CG =	SAMPLER(S) TUBING MATERIAL CO Dedicate PRESERVATI USED	SAMP SIGNATURI DDE: T TUBIN SAMPLE PR IVE ADDE	EING DA	FIELD-Filtratic Dedicated N FINAL pH	SAMPLING INITIATED A FILTERED: You Equipment Ty DUPLICATE INTEND ANALYSIS A METHO	T: 10.09 /pe: ED S/ ND/OR EQ	SAMPLING ENDED AT, FILTER SIZE: AMPLING SAMPLING CODE (m)	IO, 2C

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

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

Revision Date: February 2009

5/16/2014

VELL VOLUME PURGE: 1 WELL VOLUME (Inches): A DEPTH - STATIC DEPTH	SITE NAME:	Southe	ast Co	unty Lane	HILL THU	P SIT	E CATION:	LITH	IA, FL			
WELL CAPACITY (Gallons Por Foot): 0.72" = 0.02	WELL NO:										6-14	
WELL CAPACITY (Gallobas Per Fog): 0.72 = 0.02; 1"= 0.04; 1.26"= 0.005; 2"= 0.16; 3"= 0.30; 10"= 0.005;						PURG	ING DAT	Γ A				
COLUME PURGED PURGED PURGE TOTAL VOLUME PURGE TOTAL VOLUME PURGED (gallons) WELL CAPACITY (Gallons Per Foot): 0.78" = 0.02; 1" = 0.04; 1.25" = 0.05; 2" = 0.16; 3" = 0.37; 4" = 0.85; 5" = 1.02; 8" = 1.47; 12" = 5.88 UBING NIDERION COUNTY (Gallons Per Foot): 0.78" = 0.00; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.85; 5" = 1.02; 8" = 1.47; 12" = 5.88 UBING NIDERION COUNTY (Gallons Per Foot): 0.78" = 0.00; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.85; 5" = 1.02; 8" = 1.47; 12" = 5.88 UBING NIDERION COUNTY (Gallons Per Foot): 0.78" = 0.00; 1"		(inches):	A DIAME	FER (inches):	A DEPTH:	- fee	ot to - fe	et TO WATE	R (feet): //	PUI OR	RGE PUMP T BAILER:	YPEN/A
SEEC COC FOR ANALYSIS Part Part	only fill out	If applicable)		-61	feet	_		feet) X		gallonsko		gallons
NETLA PUMP OR TUBING	only fill ook	if applicable)	JRGE: 1 EGE			The same of the sa		-				= gallons
TIME VOLUME PURGED (galons) (g	NITIAL PUI DEPTH IN V	MP OR TUBING WELL (feet):	3 N/A	FINAL PUM DEPTH IN V	P OR TUBING NELL (feet):	J/A	PURGING	N/	PURGING		TOTAL VO	LUME NI.
UBING INSIDE DIA. CAPACITY (Gal /Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 6/8" = 0.018 URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLING DATA AMPLED BY (PRINT) / AFFILIATION: NOREW BALLOON / ZACK PATTERSON TUBING MATERIAL CODE: T FILTS-FILTERED: Y MATERIAL CODE: T FILTIATION ELUMPORTUBING EPTH IN WELL (feet): SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE CONTAINERS CODE VOLUME PRESERVATIVE TOTAL VOL ADDED IN FIELD (mL) PH SEEE COC FOR ANALYSIS SEEE COC FOR ANALYSIS	TIME	PURGED	VOLUME PURGED	PURGE RATE	DEPTH TO WATER (8	pH landard		(circle units) μmhos/cm	OXYGEN (circle units) mg/L_or			OR ODOR
UBING INSIDE DIA. CAPACITY (Gal /Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 6/8" = 0.018 URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLING DATA AMPLED BY (PRINT) / AFFILIATION: NOREW BALLOON / ZACK PATTERSON TUBING MATERIAL CODE: T FILTS-FILTERED: Y MATERIAL CODE: T FILTIATION ELUMPORTUBING EPTH IN WELL (feet): SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE CONTAINERS CODE VOLUME PRESERVATIVE TOTAL VOL ADDED IN FIELD (mL) PH SEEE COC FOR ANALYSIS SEEE COC FOR ANALYSIS		/		-						/		
UBING INSIDE DIA. CAPACITY (Gal /Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 6/8" = 0.018 URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLING DATA AMPLED BY (PRINT) / AFFILIATION: NOREW BALLOON / ZACK PATTERSON TUBING MATERIAL CODE: T FILTS-FILTERED: Y MATERIAL CODE: T FILTIATION ELUMPORTUBING EPTH IN WELL (feet): SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE CONTAINERS CODE VOLUME PRESERVATIVE TOTAL VOL ADDED IN FIELD (mL) PH SEEE COC FOR ANALYSIS SEEE COC FOR ANALYSIS)		
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UBING INSIDE DIA. CAPACITY (Gal /Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 6/8" = 0.018 URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLING DATA AMPLED BY (PRINT) / AFFILIATION: NOREW BALLOON / ZACK PATTERSON TUBING MATERIAL CODE: T FILTS-FILTERED: Y MATERIAL CODE: T FILTIATION ELUMPORTUBING EPTH IN WELL (feet): SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE CONTAINERS CODE VOLUME PRESERVATIVE TOTAL VOL ADDED IN FIELD (mL) PH SEEE COC FOR ANALYSIS SEEE COC FOR ANALYSIS										- fa		
UBING INSIDE DIA. CAPACITY (Gal /Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 6/8" = 0.018 URGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLING DATA AMPLED BY (PRINT) / AFFILIATION: NOREW BALLOON / ZACK PATTERSON TUBING MATERIAL CODE: T FILTS-FILTERED: Y MATERIAL CODE: T FILTIATION ELUMPORTUBING EPTH IN WELL (feet): SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE CONTAINERS CODE VOLUME PRESERVATIVE TOTAL VOL ADDED IN FIELD (mL) PH SEEE COC FOR ANALYSIS SEEE COC FOR ANALYSIS	VELL CAP	ACITY (Gallons	s Per Foot): ($1.75^{\circ} = 0.02$;	1" = 0.04; 1.2	5" = 0.08;	; 2" = 0.16	3" = 0.37;	4" = 0.65;	5" = 1.02;	6" = 1,47;	12" = 5,88
SAMPLED BY (PRINT)? AFFILIATION: NOREW BALLOON / ZACK PATTERSON TUBING MATERIAL CODE: T SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLING SAMPLED STILTERED: SAMPLING SAMPLED STILTERED: SAMPLING MATERIAL CODE: T FILTER SIZE:				·	- strike dan				······································			The second sections
INDREW BALLOON / ZACK PATTERSON INTITIATED AT: INTITIATED AT			, , , , , , , , , , , , , , , , , , , ,					TA.		4		
MATERIAL CODE: T Filtration Equipment Type: IELD DECONTAMINATION: PUMP Y N Dedicated TUBING Y N Dedicated DUPLICATE: N SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION INTENDED SAMPLING EQUIPMENT CODE CONTAINERS CODE CONTAINERS CODE CONTAINERS CODE VOLUME USED ADDED IN FIELD (mL) PH SEED ADDED IN FIELD (mL) PH SEED CODE CONTAINERS CODE CONTAINE					SAMPLER(S) SIG	NATURE	Tools	ttossen		" N/A		
SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION TOTAL VOL ADDED IN FIELD (mL) PH SAMPLE PLOW RATE (mL per minut) SEEE COC FOR ANALYSIS			N	A			T			De:	FILTER S	IZE:µm
SAMPLE # MATERIAL CODE VOLUME PRESERVATIVE USED ADDED IN FIELD (mL) PH ANALYSIS AND/OR METHOD CODE (mL per minut	IELD DEC	ONTAMINATIO	N: PUMP	 	-Dedicated	TUBIN	<u> </u>	L. Dedicated	DUPLICATE:	0	N	
SEE COC FOR ANALYSIS	SAMPLE]	#	MATERIAL.	The state of the s	PRESERVATIVE	Т	OTAL VOL	FINAL	ANALYSIS A	ND/OR E	QUIPMENT	SAMPLE PUMI FLOW RATE (mL per minute
	D GODE	CONTAINEN	OODL		USLD	ADDEL	NATIFED III	-/				
											S-Mark Company	
											- 10-1000-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
		4.			1/				L			
ATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)					K				***************************************	pu-	بروجيون فتخوب فتنافق فيعجب	and the control of th
AMPLING EQUIPMENT CODES: APP = After Peristatic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;					100 - 100 -				· · · · · · · · · · · · · · · · · · ·			Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

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

SITE NAME:	South	east Co	ounty la	ndfill IAM	P SITE	ATION:	4141	nia, FL			
WELL NO	F	ick Bla	enk	SAMPLE ID:					DATE: 5	6-14	
WELL VOL	(nches): V/	d DIAMET	TER (Inches):	N. WELLS	CREEN IN	to - fe	STATIC et TO WAT		OR	RGE PUMP TYPE BAILER:	N/A
EQUIPMEN			IPMENT VOL	feet = NUMP VOLUM = gallor	81		feet) X Y X	TUBING LENGTH	·)	LL VOLUME gallons =	gallons
	MP OR TUBING WELL (feet):	3 N/A		MP OR TUBING WELL (feet):	N/A	PURGING			N/A	TOTAL VOLUM PURGED (gallo	ns): NA
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)		pH andard units)	TEMP.	COND. (circle units) µmhos/cm or S/ch	OXYGEN (circle units) mg/l or % saturation	TURBIDIT (NTUs)	Y COLOR (describe)	ODOR (describe
									-		
1		X			<u></u>	1	1			1	
				1/	D		$\cancel{/}$	IA	NK		
								4/3			
TUBING IN	SIDE DIA. CAF	ACITY (Gal./	(t.): $1/8^{\prime\prime} = 0$	1" = 0.04; 1.2 0006; 3/16" = 0	.0014;	1/4" = 0.0026	; 6/16" = (0.004; 3/8" = 1		" = 0.010; 5/8"	= 5.80 = 0.016
PURGING	EQUIPMENT C	ODES: B	= Bailer		AMPL	ING DA	TA	ump; PP≈P	eristaltic Pum	p; 0 = Other	(Specify)
ANDREW E	BY (PRINT) / A SALLOON / Z	FFILIATION: ACK PATTER:	SON	SAMPLER(S) SIG	NATURE(* Josef	Stor	SAMPLING INITIATED A		SAMPLING ENDED AT:	10:10
PUMP OR T DEPTH IN V	FUBING WELL (feet):	MA		MATERIAL CODE	: 1	- /		D-FILTERED: Y tion Equipment Ty		FILTER SIZE	нт
	ONTAMINATIO			Dedicated	TUBING					(N)	
	LE CONTAINE # CONTAINERS		VOLUME	PRESERVATIVE USED	T	SERVATION TAL VOL IN FIELD (m	FINAL	ANALYSIS A METHO	ND/OR E	QUIPMENT I	AMPLE PUM FLOW RATE nL per minute

				1							
	OC FOR	ANALY AG = Amber 0		Clans Class	E = Polye	thulane: 5	D = Deline-	ulona. O . O.	-mai +		10-2-22-3
MATERIAL SAMPLING	EQUIPMENT	CODES: A	PP = After Pe	Clear Glass; F eristaltic Pump; se Flow Peristaltic F	B = Balle	r BP = E	Bladder Pump	ylene; S = Sllic ; ESP = Elect g Gravity Drain);	one; T = Te		r (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

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

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD THE LEASER IN LEVING CHAIN OF CUSTODY RECORD THE LEASER IN LEVING CHAIN OF CUSTODY RECORD								TestAmerica Tampa www.testamericainc.com 6712 Benjamin Rd, Suite 100 Phone: (813) 885 7427 Tampa, FL 33634 Fax: (813) 885 7049 Alternate Laboratory Name/Location:						7427					
THE LEAGUER	a dynachaechtal Tea	ansa.								0						Pho	one:		
JECT REFER		1.10.	PROJECT NO.		PROJECT LOCATION		MATE						_			Ta	PAGE		CF
	Monitoring W		P.O. NUMBER		Lithia, FL CONTRACT NO.	+	TYP	E					-	r	-		STAN	DARD REPOR	т –
ncy Robe		1,020,1						-								- 10	DELI		0
NT (SITE) PM	1		CLIENT PHONE	441	CLIENT FAX	SATE		ENT										DATE DUE_	T
nael Tow	nsel		(813) 663-3	222	(813) 274-6801)IND/c		S C	Z-			60			- 1		DEUN	ERY	
	Public Utilitie	es	townselm@	hillsboroug	ahcounty.org	GRAB (G) INDICATE		0 (011, 8	Ammonia-N	SO	Chloride	As, Fe, Na						DATE DUE:	0
North F	s alkenburg Ro	nad.				SKG ER	O. D	Igur	Am	TDS	당	As,							
	RACTING THIS WO		SAMPLER'S SIGN	NATURE /	1 Valier	COMPOSITE (C) OR GR	R SEMIS	AIR NONAQUEOUS LIQUID (OIL, SOLVENT.	H2S04	e e	98	HNO3						SER OF COOL MITEU PER S	
SAM	IPLE TIME		SAMPLE	IDENTIFICAT	TION	COMPO	SOLID	NONAG				R OF CO	NTAINER	S SUBI	VITTED			REM	IARKS
-7-14			TH	-75		GX	1		X	x	×	x						THE STATE OF THE S	
1	11:22			-74		1			V	X	×	×							
V	10:39			-73		UJ		Н	Y	X	X	X					1		
											_^							-	
													+						=
														660-	60541	hain of C	Sustody		_
1	ED BY: (SIGNAT		DATE 5/7/14	TIME 1(12	RELINQUISHED BY	: (sign	JATU	RE)		DATE		TIME	RELII	NQUIS	HED BY:	(SIGNATU	RE)	DATE	TIME
WED B	X: (SIGNATURE) MW MW	ltu	DATE 5/7(14	TIME 1412	RECEIVED BY: (SIG	NATURE	≣)			DATE	-	TIME	RECE	EIVED E	BY: (sign	IATURE)		DATE	TIME
CEIVED F	OR LABORAT	ORY BY:	DATE	TIME	CUSTODY INTACT YES ONO	CUS	STO			LY OG NO).	LABORA	TORY RE			.07			

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5/16/2014

WELL NO:		TH-75	>	SAMPLE				1	DATE: 5-	7-14	210210
			4			SING DA	TA	*****			
			ER (inches):	12 DEF	TH - STA	et to 17 %	STATIC D eet TO WATE O WATER) X feet) X	R (feet):	OR BA	E PUMP TYPE JILER: B	
	NT VOLUME PI t if applicable)	JRGE: 1 EQUI		= PUMP VOI		ING CAPACI		JBING LENGTH feet	+ FLOVA CELL	VOLUME gallons ≃	gallons
	IMP OR TUBIN WELL (feet):	G 16	FINAL PUM DEPTH IN V	P OR TUBING VELL (feet):	3 16	PURGIN- INITIATE	G D AT: 11, 46	PURGING ENDED AT:	12.07	OTAL VOLUME PURGED (gallon:	s): 2. (
TIME	VOLUME PURGED (gallons)	CUMUL, VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (15/cm)	DISSOLVED OXYGEN (circle units) mg/l_or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe
12.01	1.5	1.5	.10	7.74	5.67	33.01	342	. 38	3,90	NONE	NONE
12.04	.3	1.8	.10	7.94	5.66	22.61	342	.38	3.01	1	L
	1										1
										/	
TUBING IN	 PACITY (Gallon ISIDE DIA. CAR EQUIPMENT C	PACITY (Gal./F	t.): 1/8" = 0,0 = Baller; B	006; 3/16' P = Rladder f	'= 0.0014; Pump; E SAMP	1/4" = 0,0020 SP = Electric : LING DA	5, 5/16" = 0.0 Submersible Pur	3/8'' = 0			= 5,88 = 0.016 Specify)
	BY (PRINT) / A BALLOON / Z		ON	SAMPLER(S)	SIGNATURE	Joeles	Moron	SAMPLING INITIATED AT	12.07	SAMPLING ENDED AT:	12.19
	WELL (feet):	16		TUBING MATERIAL C		T	Filtratio	FILTERED; Y on Equipment Ty	pe:	FILTER SIZE:	μm
DOCUMENT CONTRACTOR	CONTAMINATIO	- ANGELER		Dedicated	TUBIN		N Cedicated	DUPLICATE:		N)	
	PLE CONTAINE # CONTAINERS	MATERIAL	V-2-3-1	PRESERVAT USED	NE T	RESERVATION OTAL VOL D IN FIELD (N	FINAL	INTENDE ANALYSIS A METHO	ND/OR EQU	IPMENT FL	MPLE PUMP OW RATE per minute)
			-								
				1.							
			- 1								
055	OC FOR	A 5 1 5 1 7 7 7	210								samuel and d

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

		TH-74		SAMPLE	ID:				DATE: 5-	7-14	
					PURG	ING DA	TA				
WELL	(inches): 3	TUBING		/a WEL	LSCREEN	NTERVAL	STATIC DI eet TO WATE	EPTH 9:	S PUR	GE PUMP TY	
			ER (inches):	AL WELL DEP	TH: / re	ECO L / TO	OWATER) X	R (reet): (· ·	DO ORB	AILER:	39
only fill ou	if applicable)	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, (101)	15		9.35		.16		. 1.2	3
EQUIPME	T VOLUME PU	JRGE: 1 EQU	PMENT VOL.		: – UME + (TÜB		feet) X TY X TU	BING LENGTH	gallons/foot) + FLOW CEL	L VOLUME	gallons
(only fill ou	if applicable)			= ga	llons + (nallen	ns/foot X	feet		gallons =	gallon
INITIAL PL	MP OR TUBIN	3 17	FINAL PUM	P OR TUBING				The second second		TOTAL VOLU	
DEPTH IN	WELL (feet):	16	DEPTH IN V	WELL (feet):	160	INITIATE	G AT: 11.03	ENDED AT:		PURGED (ga	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or (uS/cm)	OXYGEN (circle units) mg/D or % saturation	TURBIDITY (NTUs)	COLOF (describe	The state of the s
11.16	1.3	1.3	.1	9.72	5.54	22.14	542	.74	2.88	NONE	E NOV
11.19	.3	1.6		9.72	5.55	22,10	545	.63	3.29	1	1
11.22	.3	1.9	Tree i-	9.72	5.54			.57	3.93	1	V
/					F						
1		/						1		/	
		/		1							-1-1
				(b) = 1				M . T- +:)		
		/					31.101-01-0	101	/		
					/				/		
1		-			/				/		
A											and the second second second
	ACITY (Gallons				1.25" = 0.06 = 0.0014:						2" = 5.88 '8" = 0.016
TUBING IN	ACITY (Gallone SIDE DIA. CAP EQUIPMENT C	ACITY (Gal./F	t.). 1/8" = 0.0		= 0.C014;	1/4" = 0.002		004; 3/8" = 0		= 0.010, 5	2" = 5,88 8" = 0.016 er (Specify)
TUBING IN PURGING	SIDE DÌA. CAP EQUIPMENT C	ACITY (Gal./F ODES: B	t). 1/8" = 0.0 = Bailer;	1006, 3/16" BP = Bladder P	= 0.0014; ump, E SAMP	1/4" = 0.002 SP = Electric LING DA	6; 5/16" = 0.0 Submersible Pun	004; 3/8" = 0	.006; 1/2"	= 0.010, 5	8" = 0.016
TUBING IN PURGING SAMPLED	SIDE DÌA. CAF EQUIPMENT C BY (PRINT) / A	PACITY (Gal./F ODES: B FFILIATION:	t.). 1/8" = 0.0 = Bailer; E	006, 3/16"	= 0.0014; ump, E SAMP	1/4" = 0.002 SP = Electric LING DA	6; 5/16" = 0.0 Submersible Pun	004; 3/8" = 0 np; PP = Pi	.006; 1/2" eristaltic Pump	= 0.010, 5, O = Oth	8" = 0.016 er (Specify)
TUBING IN PURGING SAMPLED ANDREW I	SIDE DÌA, CAF EQUIPMENT C BY (PRINT) / A BALLOON / Z	PACITY (Gal./F ODES: B FFILIATION:	t). 1/8" = 0.0 = Bailer; E	1006, 3/16" BP = Bladder P SAMPLER(S)	= 0.0014; ump, E SAMP	1/4" = 0.002 SP = Electric LING DA	5; 5/16" = 0.0 Submersible Pun	SAMPLING	.006; 1/2" eristaltic Pump	SAMPLING	18" = 0.016 er (Specify) : 11.34
TUBING IN PURGING SAMPLED ANDREW I	SIDE DÌA, CAF EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING	PACITY (Gal./F ODES: B FFILIATION:	t.). 1/8" = 0.0 = Bailer; E	1006, 3/16" BP = Bladder P SAMPLER(S) TUBING	= 0.014; ump, E SAMP SIGNATURE	1/4" = 0.002 SP = Electric LING DA	5; 5/16" = 0.0 Submersible Pun	SAMPLING INITIATED A' FILTERED: Y	.006; 1/2" eristaltic Pump	= 0.010, 5, O = Oth	18" = 0.016 er (Specify)
TUBING IN PURGING SAMPLED ANDREW I PUMP OR DEPTH IN	SIDE DÌA, CAF EQUIPMENT C BY (PRINT) / A BALLOON / Z	PACITY (Gal/F ODES: B: FFILIATION: ACK PATTERS	t.). 1/8" = 0.0 = Bailer; E	1006, 3/16" BP = Bladder P SAMPLER(S)	= 0.014; ump, E SAMP SIGNATURE	1/4" = 0.002 SP = Electric LING DA	5; 5/16" = 0.0 Submersible Pun	SAMPLING	.006; 1/2" eristaltic Pump r. 11.22	SAMPLING ENDED AT	18" = 0,016 er (Specify) : 11.34
TUBING IN PURGING SAMPLED ANDREW I PUMP OR DEPTH IN	SIDE DIA. CAF EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet):	PACITY (Gal/FODES: B: FFILIATION: ACK PATTERS ON: PUMP	t). 1/8" = 0.0 = Bailer; E SON	3/16" SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE:	1/4" = 0.002 SP = Electric LING DA	Submersible Pun	DAY: 3/8" = 0 DAY: PP = PI SAMPLING INITIATED A' FILTERED: Y REQUIPMENT TY DUPLICATE:	eristaltic Pump	= 0.010, 5, 0 = Oth SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) : 11.34 E: µm
TUBING IN PURGING SAMPLED ANDREW I PUMP OR DEPTH IN FIELD DEC SAMF	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) 11.34 E: μm SAMPLE PUM FLOW RATE
TUBING IN PURGING SAMPLED ANDREW I PUMP OR DEPTH IN FIELD DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATIC	PACITY (Gal/FODES: B: FFILIATION: ACK PATTERS ON: PUMP	t). 1/8" = 0.0 = Bailer;	3/16" SP = Bladder P SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA SS T IG Y ESERVATIO	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) 11.34 E: μm SAMPLE PUM
SAMPLED DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) 11.34 E: µm SAMPLE PUM FLOW RATE
SAMPLED DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) 11.34 E: µm SAMPLE PUM FLOW RATE
SAMPLED DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) 11.34 E: µm SAMPLE PUM FLOW RATE
ENDER OF THE PURGING SAMPLED ANDREW IN PUMP OR DEPTH IN FIELD DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) 11.34 E: μm SAMPLE PUM FLOW RATE
SAMPLED DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) : 11.34 E:µm SAMPLE PUM FLOW RATE
SAMPLED DEC	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	FILIATION: ACK PATTERS ON: PUMP R SPECIFICA' MATERIAL	t). 1/8" = 0.0 = Bailer;	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) : 11.34 E: µm SAMPLE PUM FLOW RATE
EUBING IN PURGING SAMPLED ANDREW I PUMP OR DEPTH IN FIELD DEC SAME SAMPLE ID CODE	SIDE DIA. CAP EQUIPMENT C BY (PRINT) / A BALLOON / Z TUBING WELL (feet): CONTAMINATION #	PACITY (Gal/FODES: BEFILIATION: ACK PATTERS ON: PUMP R SPECIFICA MATERIAL CODE	t). 1/8" = 0.0 Bailer; E SON Y N (TION VOLUME	SAMPLER(S) TUBING MATERIAL CO Dedicated	= 0.0014; ump, E SAMP SIGNATURE DDE: TUBIN SAMPLE PR	1/4" = 0.002 SP = Electric LING DA EST T IG Y ESERVATION OTAL VOL	FIELD-I Filtratio	SAMPLING INITIATED A' FILTERED: Y n Equipment Ty DUPLICATE: INTENDI	eristaltic Pump 11. Z 2 Peristaltic Pump 11. Z 2 Peristaltic Pump SAND/OR EQ	SAMPLING ENDED AT FILTER SIZ	8" = 0.016 er (Specify) : 11.34 E: µm SAMPLE PUM FLOW RATE

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

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

MELL NO.	outheast	TH-7		SAMPLE	D.			tia, fl	DATE: 5	-7-14	
		111-	13		PHR	ING DA	ТΔ	l.		<u> </u>	OLD-
WELL		TUBING	G	1/ WELI	COPERA	INTERVAL	STATIC F	EPTH -	PURG	E PUMP TYPE	-
DIAMETER		DIAME	TER (inches):	/2 DEPT	TH33.4 fe	et to 43.4 fe	eet TO WATE	R (feet): 50.	OR BA	ILER: BP	
		1 WELL VO	LUME = (TOT	AL WELL DEPT	TH - STA	TIC DEPTH T	O WATER) X	WELL CAPAC	TY		
only fill out	if applicable)		= ()	43.4 feet .= PUMP VOLU	-	30.	feet) X		gallons/foot	=	gallons
	IT VOLUME PU if applicable)	RGE: 1 EQU		08	long & /	AL collec		JBING LENGTH)		VOLUME 84 ×3 gallons =	3= 2.52 gallons
	MP OR TUBINO WELL (feet):	42.4	FINAL PUN DEPTH IN	P OR TUBING WELL (feet):	42.4	PURGIN		DUBONIO		TOTAL VOLUM PURGED (gallo	
	D.J. Carl	CUMUL.		DEPTH	pН		COND.	DISSOLVED			
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	TO WATER (feet)	(standard units)	TEMP. (°C)	(circle units) μmhos/cm or (8/cm)	(circle units) ng/ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe
0.33	2.6	2.6	.2	31.19	5.10	25.51	355	1.29	3.79	NONE	NONE
0.36	.6	3.2	.2	31.19	5.07	25.61	344	1.18	3.52		1
10.39	.6	3.8	.2	31.19	5.05	25.59	340	1.13	4.01	V	1
		-						-	-	\supset	
-/		-/-	1 /		/			Mangana and Andrews		1)	11
		/			/			/			/ /
T	1				/		/				1
	/							/		/ /	
1		0.000								/	
VELL CAP	ACITY (Gallons	Per Foot)	0.75" = 0.02;	1" = 0.04; 0006; 3/16" =	1.25" = 0.0	3; 2" = 0.16 1/4" = 0.002	6; 3" = 0.37; 6; 5/16" = 0.				= 5 88
A 7	EQUIPMENT C			BP = Bladder Pt			Submersible Pui		eristaltic Pump;		(Specify)
OKOMO I	agon many o	ODLO. D	Dealer,	Diagoci I		LING DA		mp, transfer	noterido r emp,	O Guior	(орсону)
	BY (PRINT) / AI			SAMPLER(S)			Hour	SAMPLING	IM 20	SAMPLING ENDED AT:	In En
		CON PATTER	.SON	TURNIO		1007			10.39	- CALL ANDRO	
DEPTH IN V	rubing VELL (feet):	47	2.4	TUBING MATERIAL CO	DE:	Т		-FILTERED: Y on Equipment Ty		FILTER SIZE:	μ m
2004	ONTAMINATIO			Dedicated	TUBI	NG Y	N (Vedicated)	DUPLICATE:	100	N	**
14. 12.5 7 14 1C.	LE CONTAINE	7.7-	ATION			RESERVATION		INTENDE			MPLE PUMP
SAMPLE I	#	MATERIAL		PRESERVATIV		OTAL VOL	FINAL	- ANALYSIS A	ND/OR EQU	IIPMENT F	LOW RATE
D CODE	CONTAINERS	CODE	VOLUME	USED	ADDE	D IN FIELD (r		METHO	В	CODE (m	L per minute
			1.70	1/	4_						
-	OC FOR	-C-20-10-10-10-10-10-10-10-10-10-10-10-10-10		Z	<u> </u>						251179
IATERIAL		AG = Amber		Clear Glass;	PE = Poly B = Bal		PP = Polypropyl Bladder Pump;		ne; T = Teflo		(Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

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

6712 Benjamin Road Suite 100

Tampa, FL 33634 Phone (813) 885-7427 Fax (813) 885-7049 **Chain of Custody Record**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	R					Robertson, Nancy					Carrier Tracking No(s):					COC No: 660-67679.1				
Client Contact: Shipping/Receiving	Phone:				-Mail:	roher	enni	Mtes	tamer	icaine	com							Page: Page 1 of 1			
Company.		Sheet		lis	aricy.	TODE	13011	w tes	Name of Street, or other Persons				e ball	7		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Job#:		-	
TestAmerica Laboratories, Inc. Address:	Due Date Request	ed:			-					Ana	lysis	Red	uest	ed	1 1	-		660-60510-1 Preservation C	odes:		
5102 LaRoche Avenue, ,	5/16/2014		- Annual Pr							147	М						223	A - HCL		texane	
City: Savannah	TAT Requested (d.	ays);																B - NaOH C - Zn Acetate	N-N	lone AsNaO2	
State, Zíp:																		D - Nitric Acid E - NaHSO4	P-N	la204S la2S03	
GA, 31404 Phone:	PO #:		The state of the s		4													F - MeOH	R-N	4a2\$2\$O3	
912-354-7858(Tel) 912-352-0165(Fax)	FO #.				1													G - Amchior H - Ascorbic Acid		I2SO4 SP Dodeca	ahydrate
Email:	WO#:	SAMPHY.	- AND MARKING	Assessed		ē	***************************************										10000	I - Ise J - DI Water		cetone MCAA	
Project Name: SELF MWs,SS,Private Wells,NPDES	Project#: 66003915	manufacture of the	A STATISTICAL PROPERTY.	a warming of the	786	1 2	orice	nia									5	K - EDTA L - EDA		oh 4-5 ther (specif	fy)
Site:	SSOW#	and the second second	MANY .			į	Chk	Ammonia									20.07544	Other:			
Southeast Landfill					-1	i g	28D										or of	***************************************			
			Sample Type	Matrix (Wawater, Seacid,		Perform MS/MSD (Yas or No)	300_ORGFM_28D/ Chlorine	350.1/ Nitrogen,									Fotal Number				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C≍comp, G≍grab) вт	O=wasteloil	i, 15	Ĕ	000	50.1					ľ		1		ota	Special	Instruc	tions/Nr	ote:
Cample Revitation - Oriente to (East to)		$\supset <$	Preservation			(X											X				
DUPLICATE NOT BLANK (660-60510-1)	5/6/14	Eastern		Water		The second second	х	Х				1000	201200				2				
BLANK FIELD (660-60510-2)	5/6/14	09:58 Eastern		Water	- Contraction	and the same of th	х	х									2				
TH-77 (660-60510-3)	5/6/14	10:09 Eastern	(<u></u>	Water	- Constitution	- Communication	х	X									2				
TH-76 (660-60510-4)	5/6/14	11:15 Eastern		Water	-	The same of the sa	Х	Х					П				2				
TH-72 (660-60510-5)	5/6/14	12:33 Eastern		Water			X	Х									2				
and and 4 (14) (14) (14) (14) (14) (14) (14) (1		ZDG10	1																	-340.07040	
		200000000000000000000000000000000000000																ATT TO THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPERTY OF THE REAL PROPERTY OF THE REA	***************************************		
A Skow was 1					1											-		1000			
					O Control of the last	an and an															
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					1						T		\top		11						
Possible Hazard Identification						San	ple	Disp	osal (A fee	may	be as	sess	ed if s	amples	are ret	aine	d longer than	1 mont	th)	
Unconfirmed									To Cli		1	$-J_{D_i}$	sposa	ByL	ab	\Box_A	rchiv	e For	Mo	onths	
Deliverable Requested: I, II, III, IV, Other (specify)						Spe	cial I	nstru	ictions	OC F	Require	emen	ts:								
Empty Kit Relinquister b	A	Date:	100 - 100 - 100 - 100 - 100 (100 (100 (1	AND STREET, ST	T	ime:				A	-		M	ethod o	Shipme	nt:	turi tinanes	Marks from the control of the state of the s	#fiabrik@#iiiiwearea	III SONO ANNA MANASANA	
Relinquished y	Date/Time	Inel	Co	mpany	10	· secuestias	Recei	(ed b)	j. Žene Veces	and the	5	-	h . A	A	Date/T	me:	7	14 051	Comp	pany	5
Relinquished by	Date/Time.	1 1		mpany	488	1	Recti	ved by	y:	C)	- Janes Control		-	Date/T	me:	entra entra	ioner la committe de	Comp	pany	ACRES CONTRACTOR OF THE PARTY O
Relinquished by:	Date/Time: Company			Received by: Date/Time: Company					Care and the Care												
Custody Seals Intact: Custody Seal No.:		i de bejûk je	a Andrews	2 / 10 miles			Coole	. Tem	perature	e(s) °C	and Oth	ner Rer	narks:	Series I		24.47 VV.	ra.			(66







6712 Benjamin Road Suite 100

Tampa, FL 33634 Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record



Client Information (Sub Contract Lab)	Sampler:	Roll				Lab PM: Robertson, Nancy					Cerrier Tracking No(s):					COC No: 660-67743.1		
Client Information (Sub Contract Lab)	Phone:			E-Ma		Ivaii	icy		***	=	-1						Page:	
Shipping/Receiving				nand	cy.robe	rtsor	n@tes	tameri	cainc.c	com		4	7210				Page 1 of 1	
Company: TestAmerica Laboratories, Inc.									Analy	sis	Reg	ueste	d				Joh#: 660-60541-1	
Address:	Due Date Request	ed:	Aller Commence of the Commence							20/22/19/20	10201		-		T		Preservation Codes:	
5102 LaRoche Avenue, , City:	5/19/2014 TAT Requested (d:	avs):	INVESTMENT :		11								-				A - HCL M - Hexane B - NaOH N - None	
Savannah		***					1 1					-					C - Zn Acetate O - AsNaO2	
State, Zip. GA, 31404													- AND STREET				D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3	
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:								90.3				Assessment				G - Amchor S - H2SO4 H - Ascorbic Acid T - TSP Dodeca	anudrate
Emal:	WO#:	Мидэниниурду.	ALLOS PROFESSIONAL STATES	AT A STATE ASSESSED	o o o				Ш								I - Ice U - Acetone J - DI Water V - MCAA	1 lyurate
Project Name: SELF MWs,SS,Private Wells,NPDES	Project II: 66003915				le (Yes	loride	onia									containers	K · EDTA W - ph 4-5 L · EDA Z - other (specif	fy)
Site: Southeast Landfill	SSOW#:				Samp	D/Ch	Ammonia									00 00	Other:	
	A PARTIE OF THE	Sample	Type (W=	utrix water, colid, istafoli,	Field Filtered Sample (Yes or Perform MS/RSD (Yes or No)	300_ORGFN_28D/ Chloride	350.1! Nitrogen,									Total Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) вт-те» Preservation C			30	35	Direct See	086 200	234.00%	HERINGE C	nisan ræk	tie com			E)	Special Instructions/No	ite:
Allega and the second s		12:07		PARTICALISE	A^{\wedge}		May May									\triangle		
TH-75 (660-60541-1)	5/7/14	Eastern	l W	ater		Х	X									2	Justing and William	
TH-74 (660 60541-2)	5/7/14	11:22 Eastern	W	ater		х	х									2		
TH-73 (660-60541-3)	5/7/14	10:39 Eastern	W	ater		Х	X									2		
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Possible Hazard Identification			l		Sar	mple	Disp	osal (A fee	may	be as:	sesse	d if sa	imples	are reta	aine	d longer than 1 month)	
Unconfirmed			EAST-COURT AND THE PROPERTY OF	DATE A MILITARY	L			To Cli		L		posal	By La	ь	\Box_A	rchiv	ve For Months	Jane De Name Corp.
Deliverable Requested: I, II, IV, Other (specify)					Spe	ecial	Instru	ctions	/QC Re	equire	ement	5:						
Emoty Kit Relinquished by:		Date:	THE STATE OF THE S	CONTRACTOR OF THE PARTY OF THE	Time:		······································	60,000	discover the second	····Elizari y radigay		Me	thod of	Shipmen	t			ADMINISTRAÇÃO
Relinguished by: APAICE	Date/Time -/4	116	17 Compa	ny		Rece	ived by	1	10	T		4,500		Date/Tit	me: L		T'FO Company	
Relinquished b∮.	Date/Time:	Manual Control of the			Rece	wed by		Marie					Date/Tir		-	Company		
Relinquished by:	Date/Time: Company			Received by: Date/Time: Company					Company	MACAGINARATA								
Custody Seals Intact; Custody Seal No.					Gooler Temperature(s) °C and Other Remarks:													









Client: Hillsborough Co Public Utilities Dept

Job Number: 660-60510-1

Login Number: 60510 List Source: TestAmerica Tampa

List Number: 1

Creator: Williams, Jennifer

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

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Client: Hillsborough Co Public Utilities Dept

Job Number: 660-60510-1

List Source: TestAmerica Savannah
List Number: 1
List Creation: 05/07/14 08:44 AM

Creator: Banda, Christy S

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

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Client: Hillsborough Co Public Utilities Dept

Job Number: 660-60510-1

Login Number: 60541 List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

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

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Client: Hillsborough Co Public Utilities Dept Job Number: 660-60510-1

Login Number: 60541
List Source: TestAmerica Savannah
List Number: 1
List Creation: 05/08/14 06:10 AM

Creator: West, Lauren H

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

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