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Public Utilities PO Box 1110 Tampa, FL 33601-1110 Phone: (813) 272-5977 Fax: (813) 272-5589



Public Utilities

March 27, 2015

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. 54 – February 2015

Dear Mr. Morris:

The Hillsborough County Public Utilities Department (County) is pleased to provide the analytical results from the February 2015 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) surficial aquifer designated as TH-73, TH-74, TH-75 are sampled on a monthly schedule and four (4) upper Floridan/Limestone aquifer monitoring wells, designated as TH-72, TH-76, TH-77, and TH-78 are sampled on a quarterly schedule. Representative samples were collected from each of these seven (7) monitoring wells on February 4-5, 2015 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

pН

pH was observed within the Secondary Drinking Water Standard (SDWS) acceptable range of 6.5-8.5 pH units for each of the four (4) upper Floridan/Limestone aquifer monitoring wells. The pH values in monitoring wells, TH-72, TH-76, TH-77, and TH-78 were recorded at 6.71, 7.44, 7.39, and 8.25 pH units. Each of the three (3) surficial aquifer monitoring wells observed pH below the SDWS acceptable range of 6.5-8.5 pH units. Surficial aquifer monitoring wells TH-73, TH-74, and TH-75 were observed at 4.82, 5.58, and 5.57 pH units. The pH values observed are consistent with the historical data set.

Turbidity

Turbidity values in the surficial aquifer monitoring wells TH-73, TH-74, and TH-75 were recorded at 7.48, 2.63, and 1.79 Nephelometric Turbidity Units (NTUs). Turbidity in the upper Floridan aquifer monitoring wells TH-72, TH-76, TH-77, and TH-78 were recorded at 2.29, 0.67, 0.51, and 0.96 NTUs, respectively.

Conductivity

The conductivity values in TH-73, TH-74, and TH-75 were recorded at 481, 771, and 443 micromhos per centimeter (umhos/cm), which is consistent with historical data set. Conductivity values in TH-72, TH-76, TH-77, and TH-78 were recorded at 2,540, 525, 492, and 601 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. Conductivity values in TH-76, TH-77, and TH-78 are relatively low and consistent with the unaffected deep wells across the site

Total Dissolved Solids (TDS)

The TDS in monitoring well TH-72 was observed at 1,300 mg/l, which continues to be above the SDWS of 500 mg/l. The elevated value is likely attributable to the waste within the remediated sinkhole. The remaining three (3) down gradient UFA monitoring wells, TH-76, TH-77, and TH-78 exhibited TDS values of 280, 280, and 310 mg/l, respectively, which is consistent with the water quality of the unaffected deep wells across the site. The TDS in the surficial aquifer monitoring wells TH-73, TH-74, and TH-75 were all below the Secondary Drinking Water Standard (SDWS) of 500 mg/l, which is consistent with historical data set

Chloride

Chloride was observed at 410 mg/l in monitoring well TH-72, which is above the SDWS of 250 mg/l. The elevated chloride value observed is likely attributable to waste in the sinkhole and the grout materials injected into the subsurface as part of the sinkhole stabilization and remediation. Chloride values in the remaining down gradient UFA monitoring wells TH-76, TH-77, and TH-78 were observed at 9.8, 7, and 29 mg/l, which is consistent with the unaffected deep wells across

the site. Chloride concentrations in the surficial aquifer wells, TH-73, TH-74 and TH-75 were observed below the SDWS at 59, 97, and 40 mg/l, respectively, which is consistent with historical data set.

Iron

Total iron concentrations in one (1) of the four (4) upper Floridan/Limestone aquifer monitoring wells was observed above the SDWS of 0.3 mg/l. Monitoring well TH-72 exhibited iron at 0.62, mg/l. The remaining three upper Floridan/Limestone monitoring wells, TH-76, TH-77, and TH-78 exhibited iron at 0.13, 0.16, and 0.2 mg/l, respectively. Total iron values in monitoring wells TH-73, TH-74, and TH-75 was observed at 5, 36, and 5.6 mg/l, respectively. The Iron concentrations observed are consistent with historical water quality values across the site, and the iron is likely naturally occurring or a result of past strip mining.

Sodium

Sodium was observed at a concentration of 190 mg/l in monitoring well 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 materials, as previously discussed. Sodium values in down gradient monitoring wells TH-76, TH-77, and TH-78 were observed at 22, 18, and 35 mg/l, which is consistent with the unaffected deep wells across the site. Sodium values in the surficial aquifer monitor wells were all well below the standard and consistent with the historical data set.

Groundwater Elevations and Direction of Flow

On February 4, 2015, the County collected groundwater elevation data at eleven (11) locations along the western portion of Phases 1-6 at the landfill site, including seven (7) surficial aquifer wells and four (4) upper Floridan (limestone) aquifer wells. No significant changes to the patterns of flow in the surficial aquifer were noted in the data set, and the flow diagram for the surficial aquifer is provided. The elevations observed within the wells closest to the sinkhole indicate that the flow pattern may be affected by the remediated feature, which has not been unexpected. However, the overall direction of flow within the surficial aquifer remains toward the west/northwest.

A contour diagram of the upper Floridan / Limestone aquifer has been prepared for the west side of the landfill around the sinkhole, and it is provided with this submittal. This diagram was generated manually in AutoCad ™ utilizing the four data points closest to the sinkhole. During this sampling event, the changes in elevations between TH-72 and TH-76 is - 0.05 ft., and TH-72 and TH-77 is + 0.14 ft. Elevation of newly installed monitor well TH-78 indicated an elevation of water

body in this area, or some other geologic formation anomaly may be creating this potentiometric high. Based on the significant difference in elevations, the data from TH-78 was approximately 6 feet higher than those elevations recorded at TH-72, TH-76, and TH-77. This anomaly in the groundwater elevation indicates that TH-78 may be influenced by the geology in that area or the nearby surface water feature. Therefore, the data from TH-78 was not utilized to prepare the contour diagram. However, the County maintains the position that the configuration of the three down gradient deep monitoring wells adequately addresses the potential for lateral migration of the contamination observed in TH-72.

Conclusions

The water quality observed in the February 2015 IAMP sampling event indicates that the monitoring well TH-72, which is closest to the sinkhole, continues to exhibit impacts to water quality in the upper Floridan / Limestone aquifer. The impacts observed include elevated conductivity, TDS, chloride, iron, and sodium. The values have remained relatively stable, and do not appear to be migrating to any of the down gradient deep monitoring wells. The impacts were not unexpected in the immediate vicinity of the sinkhole, as TH-72 is less than fifty feet away from the former surface expression, and likely even closer to the subsurface karst feature where significant amounts of waste and cement grout materials are likely present. Down gradient deep monitoring wells, TH-76 and TH-77, and TH-78 exhibit good water quality with no evidence of impact from the sinkhole. Conductivity values, pH, TDS, sodium and chloride are all very low and consistent with the historical data sets for the unaffected upper Floridan/Limestone aquifer groundwater monitoring wells at the SCLF.

Recommendations

The County continues to move forward with implementation of the IAMP, which includes the monthly sampling of the four upper Floridan / Limestone aquifer groundwater monitoring wells, TH-72, TH-76, TH-77, and TH-78, and quarterly sampling of the three surficial aquifer wells, TH-73, TH-74, and TH-75. The County 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. However, it should be noted the IAMP has been conducted for over four years, and the consistency of the data set supports closure of this monitoring plan. A select group of the IAMP wells, designed to provide long term protectiveness, should be included in the semi-annual sampling required by the Landfill Operations Permit No. 35435-022-SO/01. It is anticipated that an application for modification of that permit, which is currently being prepared for submittal, will include this proposed plan. If you have any specific concerns with this concept, please provide your feedback as soon as possible, so we can incorporate any suggestions into our strategy moving forward.

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, Advanced Environmental Laboratories, 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

DSA/mt

G:/enviro/Southeast/Scanned Reports-Docs/IAMP Reports/SCLF – IAMP Report No 54.pdf

John Lyons, Director, Public Works Department XC:

Kim Byer, Director, Solid Waste Division, Public Works

Larry Ruiz, Landfill Manager, Solid Waste Division, Public Works

Jeff Greenwell, GMIII, Environmental Services, Public Utilities

Richard Tedder, FDEP Tallahassee

Clark Moore, FDEP Tallahassee

Steve Morgan, FDEP, Southwest District

Andy Schipfer, EPC

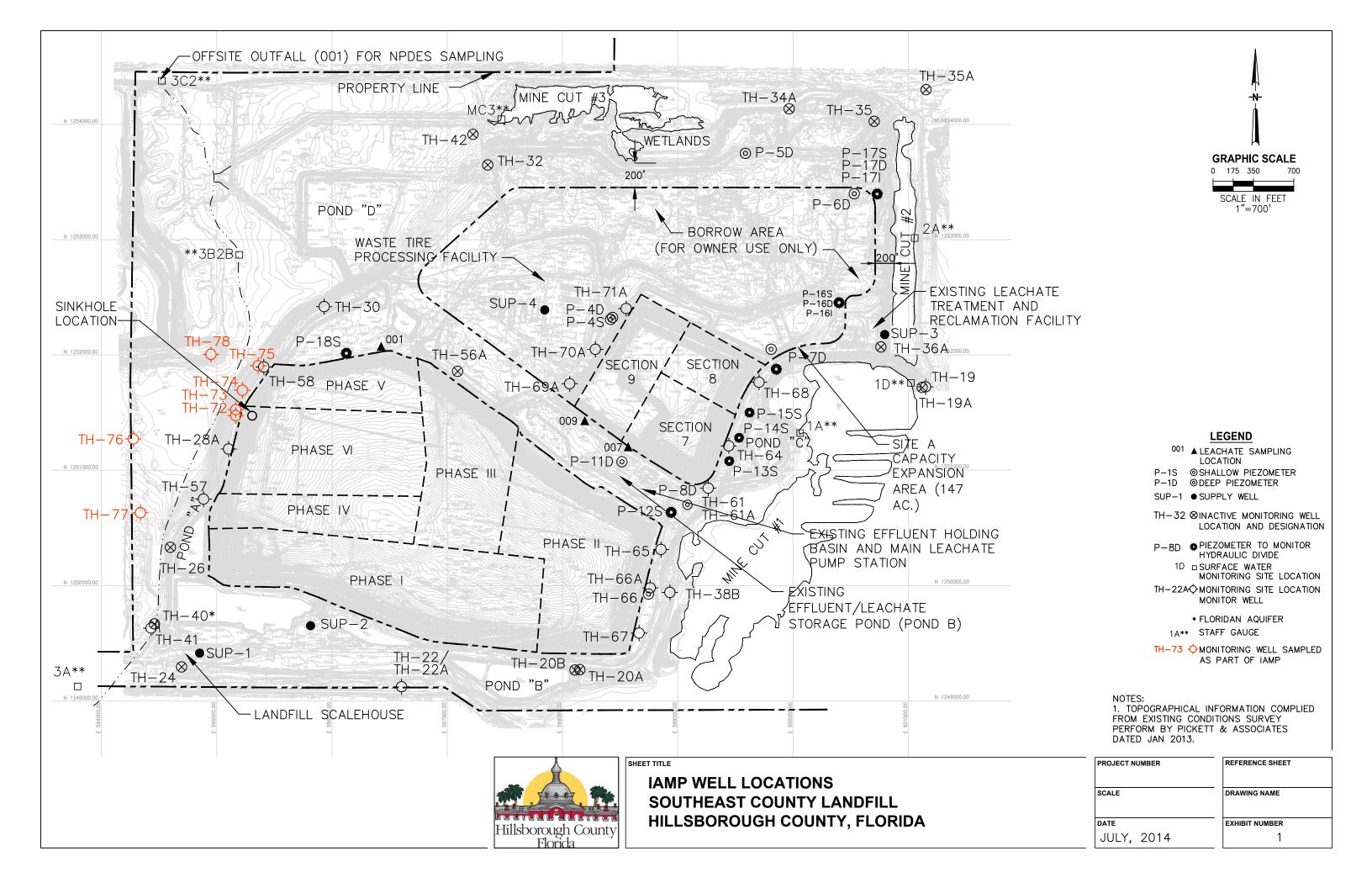
Ernest Ely, WMI

Brian Miller, DOH

Rich Siemering, HDR

Bob Curtis, HDR

Joe O'Neill, CDS



Southeast County Landfill Laboratory Analytical Data Surficial and Upper Floridan Aquifer Groundwater Monitoring Wells February 4-5, 2015

GENERAL	Surficia	Aquifer W	/ells	Ų	Jpper Flori	dan Wells		MCL STANDARD
PARAMETERS	TH-73	TH-74	TH-75	TH-72	TH-76	TH-77	TH-78	
conductivity (umhos/cm) (field)	481	771	443	2540	525	492	601	NS
dissolved oxygen (mg/l) (field)	0.52	0.68	0.55	0.57	0.27	0.2	0.32	NS
pH (field)	4.82	5.58	5.57	6.71	7.44	7.39	8.25	(6.5 - 8.5)**
temperature (°C) (field)	24.90	21.36	21.68	23.27	22.65	23.20	22.95	NS
turbidity (NTU) (field)	7.48	2.63	1.79	2.29	0.67	0.51	0.96	NS
total dissolved solids (mg/l)	280	440	250	1,300	280	280	310	500**
chloride (mg/l)	59	97	40	410	9.8	7 j4	29	250**
ammonia nitrogen (mg/l as N)	2.5	3.9	1.6	17	0.34	0.39	0.32	NS
METALS (mg/l)								MCL STANDARD
arsenic	0.0016 u	0.0016 u	0.0027 i	0.0016 u	0.0016 u	0.0016 u	0.0016 u	0.01*
iron	5	36	5.6	0.62	0.13	0.16	0.2	0.3**
sodium	34	32	17	190	22	18	35	160*

Note: Ref. Groundwater Guidance Concentrations, FDEP 2012

MCL = Maximum Contaminant Level

NTU = Nephelometric Turbidity Units

NS = No Standard

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

u = parameter was analyzed but not detected.

j4 = estimated value, value may not be accurate, spike recovery or RPD outside of criteria

* = Primary Drinking Water Standard

** = Secondary Drinking Water Standard

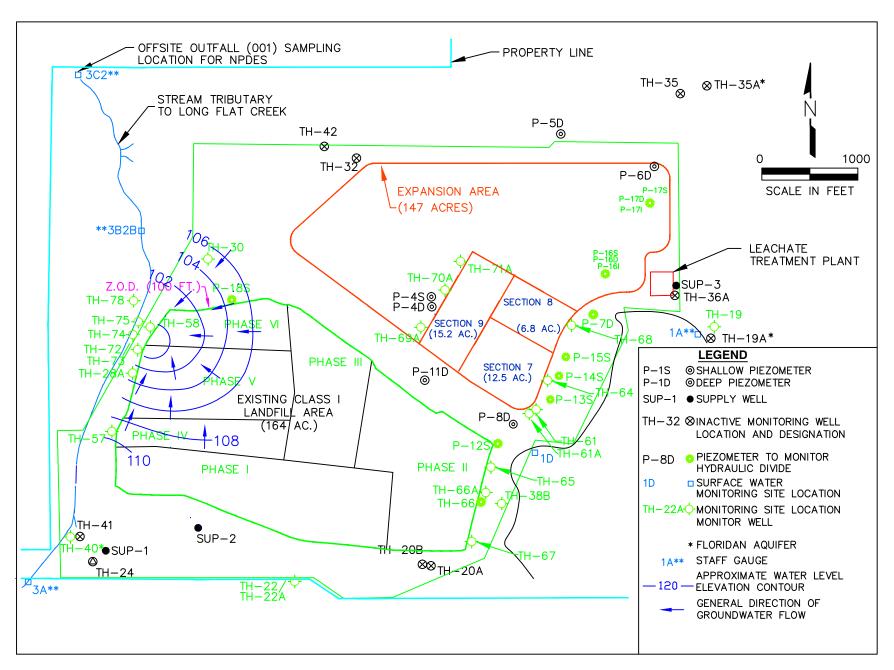
1,300

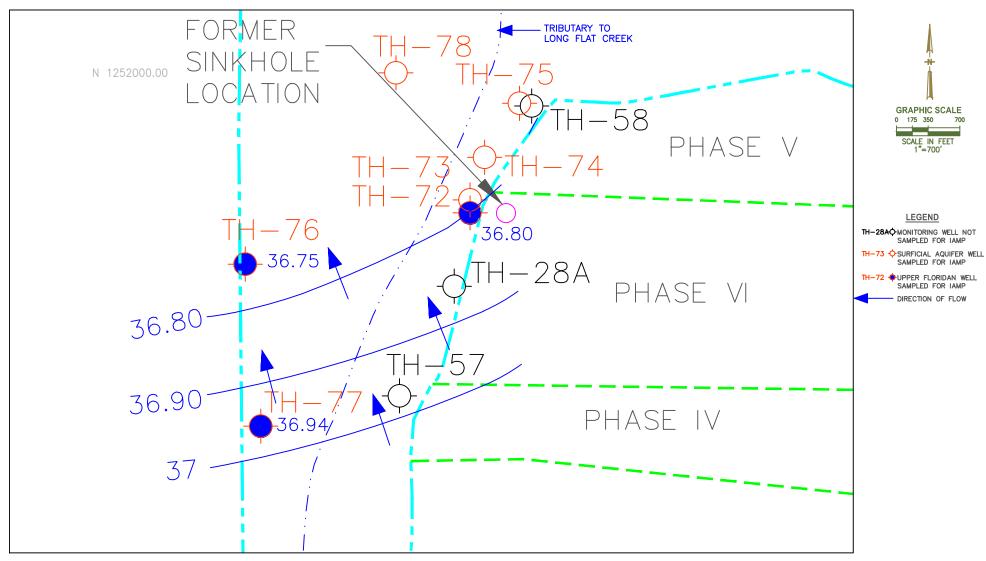
Exceeds Standards

ug/l = micrograms per liter mg/l = milligrams per liter

Southeast County Landfill Groundwater Elevations February 4, 2015

Measuring	T.O.C.			
Point	Elevations	W.L.	W.L.	Time
I.D.	(NGVD)	B.T.O.C.	(NGVD)	
TH-28A	131.10	28.00	103.10	11:04 AM
TH-30	128.88	23.79	105.09	10:55 AM
TH-57	128.36	18.85	109.51	11:08 AM
TH-58	127.88	27.99	99.89	10:58 AM
TH-72*	130.96	94.16	36.80	11:01 AM
TH-73	131.07	30.56	100.51	11:01 AM
TH-74	109.08	9.33	99.75	11:14 AM
TH-75	106.92	7.80	99.12	11:53 AM
TH-76*	111.21	74.46	36.75	9:33 AM
TH-77*	119.88	82.94	36.94	9:30 AM
TH-78*	120.75	76.21	44.54	9:40 AM
NGVD	= National Geode	tic Vertical Datum		
T.O.C.	= Top of Casing			
B.T.O.C.	= Below Top of Ca	asing		
*	= Floridan Well			
W.L.	= Water Level			





FEBRUARY 2015

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



Payments: PO. Box 551580 Jacksonville, FL32255-1580

Phone: (813)630-9616 Fax: (813)630-4327



February 23, 2015

David Adams Hillsborough Co Public Utilites 332 North Falkenburg Rd Tampa, FL 33619

RE: Workorder: T1501630 SE County Landfill IAMP

OBuch

Dear David Adams:

Enclosed are the analytical results for sample(s) received by the laboratory between Wednesday, February 04, 2015 and Thursday, February 05, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

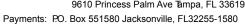
Heidi Brooks

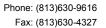
HBrooks@AELLab.com

Enclosures

Report ID: 353498 - 5118805 Page 1 of 29









SAMPLE SUMMARY

Workorder: T1501630 SE County Landfill IAMP

Lab ID	Sample ID	Matrix	Date Collected	Date Received
T1501630001	Field Blank	Water	2/4/2015 09:50	2/4/2015 15:25
T1501630002	Duplicate	Water	2/4/2015 00:00	2/4/2015 15:25
T1501630003	TH-78	Water	2/4/2015 10:41	2/4/2015 15:25
T1501630004	TH-74	Water	2/4/2015 11:37	2/4/2015 15:25
T1501630005	TH-75	Water	2/4/2015 12:18	2/4/2015 15:25
T1501630006	TH-76	Water	2/4/2015 13:37	2/4/2015 15:25
T1501630007	TH-77	Water	2/5/2015 12:50	2/5/2015 14:45
T1501630008	TH-72	Water	2/5/2015 11:42	2/5/2015 14:45
T1501630009	TH-73	Water	2/5/2015 10:39	2/5/2015 14:45

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Payments: P.O. Box 551580 Jacksonville, FL32255-1580

Phone: (813)630-9616 Fax: (813)630-4327



ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

Date Received: 02/04/15 15:25 Lab ID: T1501630001 Matrix: Water

Field Blank Date Collected: 02/04/15 09:50 Sample ID:

Sample Description: Location:

					Adjusted	Adjusted				
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab		
METALS										
Analysis Desc: SW846 6010B	Prep	Preparation Method: SW-846 3010A								
Analysis,Water	Anal	ytical Me	ethod: SW	-846 6010						
Arsenic	1.6	U	ug/L	1	10	1.6	2/9/2015 16:29	Т		
Iron	21	U	ug/L	1	100	21	2/9/2015 16:29	Т		
Sodium	0.042	U	mg/L	1	0.20	0.042	2/9/2015 16:29	Т		
WET CHEMISTRY										
Analysis Desc: Ammonia,E350.1,Water	Anal	ytical Me	ethod: EPA	A 350.1						
Ammonia (N)	0.02	U	mg/L	1	0.10	0.02	2/9/2015 13:54	Т		
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM	2540 C						
Total Dissolved Solids	10	U	mg/L	1	10	10	2/10/2015 09:21	Т		
Analysis Desc: Chlorides,SM4500-CI-E,Water	Anal	ytical Me	ethod: SM	4500-CI-E						
Chloride	1.1	U	mg/L	1	5.0	1.1	2/5/2015 12:43	T		
Lab ID: T1501630002				Date Received:	02/04/15 15:25	Matrix: \	Water			
Sample ID: Duplicate				Date Collected:	02/04/15 00:00					
Sample Description:				Location:						
-					Adjusted	Adjusted				

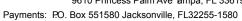
Parameters	Dogulto	Ougl	Linita	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzeu	Lau
METALS								
Analysis Desc: SW846 6010B	Prep	aration I	Method: SV	V-846 3010A				
Analysis, Water	Anal	ytical Me	ethod: SW-	846 6010				
Arsenic	3.6	ı	ug/L	1	10	1.6	2/9/2015 16:35	Т
Iron	6600		ug/L	1	100	21	2/9/2015 16:35	Τ
Sodium	20		mg/L	1	0.20	0.042	2/9/2015 16:35	Т
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Anal	ytical Me	ethod: EPA	350.1				
Ammonia (N)	1.7		mg/L	1	0.10	0.02	2/9/2015 13:54	Т

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CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

T1501630002 Date Received: 02/04/15 15:25 Matrix: Water Lab ID:

Date Collected: 02/04/15 00:00 Sample ID: **Duplicate**

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	thod: SM	2540 C				
Total Dissolved Solids	240		mg/L	1	10	10	2/10/2015 09:21	Т
Analysis Desc: Chlorides,SM4500-CI-E,Water	Anal	ytical Me	ethod: SM	4500-CI-E				
Chloride	32		mg/L	1	5.0	1.1	2/5/2015 12:43	Т

Date Received: 02/04/15 15:25 Water Matrix: Lab ID: T1501630003

Sample ID: TH-78 Date Collected: 02/04/15 10:41

Sample Description: Location:

Parameters	Results C	ual Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS							
Analysis Desc: Data entry of field measurements	Analytica	al Method: Field Me	asurements				
Conductivity	601	umhos/cm	1			2/4/2015 10:41	
Dissolved Oxygen	0.32	mg/L	1			2/4/2015 10:41	
Temperature	22.95	°C	1			2/4/2015 10:41	
Turbidity	0.96	NTU	1			2/4/2015 10:41	
рН	8.25	SU	1			2/4/2015 10:41	

Adjusted

Adjusted

METALS

Analysis Desc: SW846 6010B	Preparation Method: SW-846 3010A									
Analysis,Water	Analy	tical M	ethod: SW-8	346 6010						
Arsenic	1.6	U	ug/L	1	10	1.6	2/9/2015 16:40	Т		
Iron	200		ug/L	1	100	21	2/9/2015 16:40	Т		
Sodium	35		mg/L	1	0.20	0.042	2/9/2015 16:40	Т		

WET CHEMISTRY

WEI CHEWISIKI						
Analysis Desc: Ammonia,E350.1,Water	Analytica	al Method: EPA 3	50.1			
Ammonia (N)	0.32	mg/L	1	0.10	0.02 2/9/2015	13:54 T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytica	al Method: SM 25	40 C			
Total Dissolved Solids	310	mg/L	1	10	10 2/10/2015	09:21 T

Report ID: 353498 - 5118805 Page 4 of 29

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Adjusted

Phone: (813)630-9616

Fax: (813)630-4327



ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

Date Received: 02/04/15 15:25 Matrix: Water Lab ID: T1501630003

Date Collected: 02/04/15 10:41 Sample ID: TH-78

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Chlorides,SM4500-CI-E,Water	Ana	ytical Me	ethod: SM	4500-CI-E				
Chloride	29		mg/L	1	5.0	1.1	2/5/2015 12:43	Т

T1501630004 Date Received: 02/04/15 15:25 Matrix: Water Lab ID:

Date Collected: 02/04/15 11:37 Sample ID: TH-74

Sample Description: Location:

Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Anal	ytical Me	ethod: Field Me	easurements				
Conductivity	771		umhos/cm	1			2/4/2015 11:37	
Dissolved Oxygen	0.68		mg/L	1			2/4/2015 11:37	
Temperature	21.36		°C	1			2/4/2015 11:37	
Turbidity	2.63		NTU	1			2/4/2015 11:37	
рН	5.58		SU	1			2/4/2015 11:37	

METALS

Analysis Desc: SW846 6010B Analysis,Water	Prepa	Preparation Method: SW-846 3010A								
	Analy	tical M	ethod: SW-8							
Arsenic	1.6	U	ug/L	1	10	1.6	2/9/2015 16:46	Τ		
Iron	36000		ug/L	1	100	21	2/9/2015 16:46	Τ		
Sodium	32		mg/L	1	0.20	0.042	2/9/2015 16:46	Т		

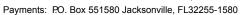
WET CHEMISTRY							
Analysis Desc: Ammonia,E350.1,Water	Analytica	al Method: EPA 3	350.1				
Ammonia (N)	3.9	mg/L	1	0.10	0.02	2/9/2015 13:54	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytica	al Method: SM 2	540 C				
Total Dissolved Solids	440	mg/L	1	10	10	2/10/2015 09:21	Т
Analysis Desc: Chlorides,SM4500-Cl- E,Water	Analytica	al Method: SM 4	500-CI-E				
Chloride	97	ma/L	1	5.0	1.1	2/5/2015 12:43	Т

Report ID: 353498 - 5118805 Page 5 of 29

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ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

Date Received: 02/04/15 15:25 Lab ID: T1501630005 Matrix: Water

TH-75 Date Collected: 02/04/15 12:18 Sample ID:

Sample Description: Location:

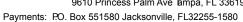
Sample Description.				Location.				
					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Ana	lytical Me	ethod: Field I	Measurements				
Conductivity	443		umhos/cr	n 1			2/4/2015 12:18	
Dissolved Oxygen	0.55		mg/L	1			2/4/2015 12:18	
Temperature	21.68		°C	1			2/4/2015 12:18	
Turbidity	1.79 5.57		NTU	1			2/4/2015 12:18	
pH	5.57		SU	1			2/4/2015 12:18	
METALS								
Analysis Desc: SW846 6010B	Prep	paration I	Method: SW-	-846 3010A				
Analysis, Water	Ana	lytical Me	ethod: SW-8	46 6010				
Arsenic	2.7	ı	ug/L	1	10	1.6	2/9/2015 16:50	Т
Iron	5600		ug/L	1	100	21	2/9/2015 16:50	Т
Sodium	17		mg/L	1	0.20	0.042	2/9/2015 16:50	Т
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Ana	lytical Me	ethod: EPA 3	50.1				
Ammonia (N)	1.6		mg/L	1	0.10	0.02	2/9/2015 13:54	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Ana	lytical Me	ethod: SM 25	540 C				
Total Dissolved Solids	250		mg/L	1	10	10	2/10/2015 09:21	Т
Analysis Desc: Chlorides,SM4500-Cl-E,Water	Ana	lytical Me	ethod: SM 45	500-CI-E				
Chloride	40		mg/L	1	5.0	1.1	2/5/2015 12:43	Т
Lab ID: T1501630006				Date Received:	02/04/15 15:25	Matrix:	Water	
Sample ID: TH-76				Date Collected:	02/04/15 13:37			
Sample Description:				Location:				
					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab

FIELD PARAMETERS

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Workorder: T1501630 SE County Landfill IAMP

Date Received: 02/04/15 15:25 Lab ID: T1501630006 Matrix: Water

ANALYTICAL RESULTS

Sample ID: TH-76 Date Collected: 02/04/15 13:37

Sample Description: Location:

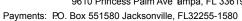
Sample Description:				Location:				
					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
Analysis Desc: Data entry of field measurements	Anal	ytical Me	ethod: Field I	Measurements				
Conductivity	525		umhos/cn	n 1			2/4/2015 13:37	
Dissolved Oxygen	0.27		mg/L	1			2/4/2015 13:37	
Temperature	22.65		°C	1			2/4/2015 13:37	
Turbidity	0.67		NTU	1			2/4/2015 13:37	
pH	7.44		SU	1			2/4/2015 13:37	
METALS								
Analysis Desc: SW846 6010B	Prep	aration N	Method: SW-	-846 3010A				
Analysis, Water	Anal	ytical Me	ethod: SW-84	46 6010				
Arsenic	1.6	U	ug/L	1	10	1.6	2/9/2015 16:55	Т
Iron	130		ug/L	1	100	21	2/9/2015 16:55	Т
Sodium	22		mg/L	1	0.20	0.042	2/9/2015 16:55	Т
WET CHEMISTRY								
Analysis Desc: Ammonia,E350.1,Water	Anal	ytical Me	ethod: EPA 3	50.1				
Ammonia (N)	0.34		mg/L	1	0.10	0.02	2/9/2015 13:54	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM 25	540 C				
Total Dissolved Solids	280		mg/L	1	10	10	2/10/2015 09:21	Т
Analysis Desc: Chlorides,SM4500-Cl-E,Water	Anal	ytical Me	ethod: SM 45	500-CI-E				
Chloride	9.8		mg/L	1	5.0	1.1	2/5/2015 12:43	T
Lab ID: T1501630007				Date Received:	02/05/15 14:45	Matrix:	Water	
Sample ID: TH-77				Date Collected:	02/05/15 12:50			
Sample Description:				Location:				
					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								<u> </u>
Analysis Desc: Data entry of field measurements	Anal	ytical Me	ethod: Field I	Measurements				
Conductivity	492		umhos/cn	n 1			2/5/2015 12:50	

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ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

Date Received: 02/05/15 14:45 Lab ID: T1501630007 Matrix: Water

TH-77 Date Collected: 02/05/15 12:50 Sample ID:

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Dissolved Oxygen	0.2		mg/L	1			2/5/2015 12:50	
Temperature	23.2		°C	1			2/5/2015 12:50	
Turbidity	0.51		NTU	1			2/5/2015 12:50	
pH	7.39		SU	1			2/5/2015 12:50	

METALS

Analysis Desc: Chlorides,SM4500-CI-E,Water	Analy	tical M	ethod: SM 4	500-CI-E				
Chloride	7.0	J4	mg/L	1	5.0	1.1	2/10/2015 11:38	Т
Analysis Desc: SW846 6010B Analysis,Water	·		Method: SW ethod: SW-8	7-846 3010A 846 6010				
Arsenic	1.6	U	ug/L	1	10	1.6	2/9/2015 17:01	Т
Iron	160		ug/L	1	100	21	2/9/2015 17:01	Т
Sodium	18		mg/L	1	0.20	0.042	2/9/2015 17:01	Т

WET CHEMISTRY

WEI OHEIMOTICI						
Analysis Desc: Ammonia,E350.1,Water	Analytica	al Method: EPA 3	50.1			
Ammonia (N)	0.39	mg/L	1	0.10	0.02 2/9/2015 13	3:54 T
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytica	al Method: SM 25	640 C			
Total Dissolved Solids	280	mg/L	1	10	10 2/10/2015 09	9:21 T

Date Received: 02/05/15 14:45 Lab ID: T1501630008 Matrix: Water

Date Collected: 02/05/15 11:42 Sample ID: TH-72

Sample Description: Location:

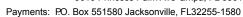
Sample Description:			LC	ocation:				
					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Ana	lytical Me	ethod: Field Me	easurements				
Conductivity	2540		umhos/cm	1			2/5/2015 11:42	
Dissolved Oxygen	0.57		mg/L	1			2/5/2015 11:42	
Temperature	23.27		°C	1			2/5/2015 11:42	
Turbidity	2.29		NTU	1			2/5/2015 11:42	

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ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

Lab ID: T1501630008 Date Received: 02/05/15 14:45 Matrix: Water

Sample ID: TH-72 Date Collected: 02/05/15 11:42

Sample Description: Location:

					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
рН	6.71		SU	1			2/5/2015 11:42	

METALS

Analysis Desc: Ammonia,E350.1,Water	Analy	tical M	ethod: EPA 3	350.1				
Ammonia (N)	17		mg/L	10	1.00	0.25	2/9/2015 13:54	Т
Analysis Desc: SW846 6010B Analysis,Water			Method: SW ethod: SW-8					
Arsenic	1.6	U	ug/L	1	10	1.6	2/9/2015 17:32	T
Iron	620		ug/L	1	100	21	2/9/2015 17:32	Т
Sodium	190		mg/L	1	0.20	0.042	2/9/2015 17:32	Т

METALS

Analysis Desc: Tot Dissolved Solids,SM2540C	Analytica	al Method: SM 25	640 C			
Total Dissolved Solids	1300	mg/L	1	10	10 2/10/2015 0	9:21 T
Analysis Desc: Chlorides,SM4500-Cl-E,Water	Analytica	al Method: SM 45	600-CI-E			
Chloride	410	mg/L	10	50	11 2/10/2015 1	1:38 T

Lab ID: T1501630009 Date Received: 02/05/15 14:45 Matrix: Water

Sample ID: TH-73 Date Collected: 02/05/15 10:39

Sample Description: Location:

					Adjusted	Adjusted		
Parameters	Results	Qual	Units	DF	PQL	MDL	Analyzed	Lab
FIELD PARAMETERS								
Analysis Desc: Data entry of field measurements	Anal	ytical Me	thod: Field Me	asurements				
Conductivity	481		umhos/cm	1			2/5/2015 10:39	
Dissolved Oxygen	0.52		mg/L	1			2/5/2015 10:39	
Temperature	24.9		°C	1			2/5/2015 10:39	
Turbidity	7.48		NTU	1			2/5/2015 10:39	
pH	4.82		SU	1			2/5/2015 10:39	

METALS

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ANALYTICAL RESULTS

Workorder: T1501630 SE County Landfill IAMP

Lab ID: T1501630009 Date Received: 02/05/15 14:45 Matrix: Water

Sample ID: TH-73 Date Collected: 02/05/15 10:39

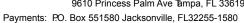
Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6010B Analysis,Water	·		Method: SVethod: SW-	V-846 3010A 846 6010				
Arsenic Iron Sodium	1.6 5000 34	U	ug/L ug/L mg/L	1 1 1	10 100 0.20	1.6 21 0.042	2/9/2015 17:38 2/9/2015 17:38 2/9/2015 17:38	T T T
WET CHEMISTRY Analysis Desc: Ammonia,E350.1,Water	Anal	ytical Me	ethod: EPA	.350.1				
Ammonia (N)	2.5		mg/L	1	0.10	0.02	2/9/2015 13:54	Т
Analysis Desc: Tot Dissolved Solids,SM2540C	Anal	ytical Me	ethod: SM	2540 C				
Total Dissolved Solids	280		mg/L	1	10	10	2/10/2015 09:21	Т
Analysis Desc: Chlorides,SM4500-Cl- E,Water	Anal	ytical Me	ethod: SM	4500-CI-E				
Chloride	59		mg/L	5	25	5.7	2/10/2015 11:38	Т

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ANALYTICAL RESULTS QUALIFIERS

Workorder: T1501630 SE County Landfill IAMP

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- Estimated Result J4

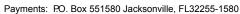
LAB QUALIFIERS

- Τ DOH Certification #E84589(AEL-T)(FL NELAC Certification)
- Τ^ Not Certified

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QUALITY CONTROL DATA

Workorder: T1501630 SE County Landfill IAMP

QC Batch: WCAt/1543 Analysis Method: SM 4500-CI-E

QC Batch Method: SM 4500-CI-E Prepared:

T1501630001, T1501630002, T1501630003, T1501630004, T1501630005, T1501630006 Associated Lab Samples:

METHOD BLANK: 1672694

Blank Reporting Parameter Units Result Limit Qualifiers

WET CHEMISTRY

Chloride 1.1 U mg/L 1.1

LABORATORY CONTROL SAMPLE: 1672695

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers WET CHEMISTRY

Chloride 40 43 108 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1672696 1672697 Original: T1501630002

Original Spike MS MSD MS MSD % Rec Max Limit RPD RPD Qualifiers Parameter Units Result Conc. Result Result % Rec % Rec WET CHEMISTRY Chloride mg/L 32 40 72 74 101 104 90-110 2 10

QC Batch: DGMt/1046 Analysis Method: SW-846 6010 QC Batch Method: SW-846 3010A Prepared: 02/06/2015 12:00

T1501630001, T1501630002, T1501630003, T1501630004, T1501630005, T1501630006, T1501630007, Associated Lab Samples:

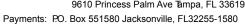
METHOD BLANK: 1673032

Parameter	Units	Blank Result	Reporting Limit Qualifiers	
METALS				
Arsenic	ug/L	1.6	1.6 U	
Iron	ug/L	21	21 U	
Sodium	mg/L	0.042	0.042 U	

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QUALITY CONTROL DATA

Workorder:	T1501630	SE County	y Landfill IAMP
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LABORATORY	CONTROL	SAMPI F	1673033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
METALS					
Arsenic	ug/L	400	380	95	80-120
Iron	ug/L	25000	27000	104	80-120
Sodium	mg/L	50	54	107	80-120

MATRIX SPIKE & MATR	RIX SPIKE DUPL	.ICATE: 1673	3034	1673	035	Origir	nal: T150	1548001			
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers	
METALS											
Arsenic	ug/L	1.4	400	380	390	95	96	75-125	1	20	
Iron	ug/L	310	25000	27000	27000	104	106	75-125	2	20	
Sodium	mg/L	160	50	220	210	104	100	75-125		20	

QC Batch: WCAt/1564 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

T1501630001, T1501630002, T1501630003, T1501630004, T1501630005, T1501630006, T1501630007 Associated Lab Samples:

METHOD BLANK: 1673386

Parameter	Units	Blank Result	Reporting Limit Qualifiers	
WET CHEMISTRY				
Ammonia (N)	mg/L	0.02	0.02 U	

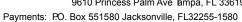
LABORATORY CONTROL SAMPLE: 1673387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers	
WET CHEMISTRY Ammonia (N)	mg/L	1	1.1	107	90-110	

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QUALITY CONTROL DATA

Workorder: T1501630 SE County Landfill IAMP

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673388 1673389 Original: T1501630002

Original Spike MS MSD MS MSD % Rec Max

Parameter Units Result Result % Rec % Rec Limit RPD RPD Qualifiers Conc. Result

WET CHEMISTRY

1.7 2.6 2.7 92 96 90-110 2 10 Ammonia (N) mg/L

QC Batch: WCAt/1565 Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1 Prepared:

T1501630008, T1501630009 Associated Lab Samples:

METHOD BLANK: 1673398

Blank Reporting

Parameter Units Result Limit Qualifiers

WET CHEMISTRY

Ammonia (N) mg/L 0.02 0.02 U

LABORATORY CONTROL SAMPLE: 1673399

Spike LCS LCS % Rec

Parameter Units Conc. Result % Rec Limits Qualifiers

WET CHEMISTRY

Ammonia (N) mg/L 1 1.1 107 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673400 Original: T1501630008 1673401

Spike MS MSD MS MSD Original % Rec Max Parameter Result % Rec % Rec Limit RPD RPD Qualifiers Units Conc. Result Result

WET CHEMISTRY Ammonia (N) 17 19 18 108 101 90-110 mg/L

QC Batch: WCAt/1582 Analysis Method: SM 2540 C

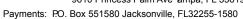
QC Batch Method: SM 2540 C Prepared:

T1501630001, T1501630002, T1501630003, T1501630004, T1501630005, T1501630006, T1501630007, Associated Lab Samples:

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QUALITY CONTROL DATA

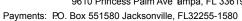
METHOD BLANK: 16739	94					
Parameter	Units	Blank Result	Reporting Limit Qua	alifiers		
WET CHEMISTRY Total Dissolved Solids	mg/L	10	10 U			
LABORATORY CONTRO	L SAMPLE: 1673	3995				
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec		Qualifiers
WET CHEMISTRY Total Dissolved Solids	mg/L	660	660	100	75-125	
SAMPLE DUPLICATE: 1	673996		Original: T1501	530001		
Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	260	260	1	10	
QC Batch: WC	:At/1590		Analysis Metho	od:	SM 4500-CI-E	
	4500-CI-E		Prepared:			
Associated Lab Samples:	T1501630007,	T1501630008, T1	501630009			
METHOD BLANK: 16741	58					
Parameter	Units	Blank Result	Reporting Limit Qua	alifiers		
WET CHEMISTRY Chloride	mg/L	1.1	1.1 U			
LABORATORY CONTRO	L SAMPLE: 1674	1159				
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec		Qualifiers
WET CHEMISTRY						
Chloride	mg/L	40	43	108	90-110	

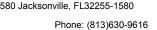
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QUALITY CONTROL DATA

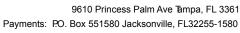
Workorder: T1501630 SE County Landfill IAMP

MATRIX SPIKE & MATRI	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1674160						nal: T150				
Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers	
WET CHEMISTRY Chloride	mg/L	7	40	39	40	79	83	90-110	4	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1501630 SE County Landfill IAMP

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1501630001	Field Blank			SM 4500-CI-E	WCAt/1543
T1501630002	Duplicate			SM 4500-CI-E	WCAt/1543
T1501630003	TH-78			SM 4500-CI-E	WCAt/1543
T1501630004	TH-74			SM 4500-CI-E	WCAt/1543
T1501630005	TH-75			SM 4500-CI-E	WCAt/1543
T1501630006	TH-76			SM 4500-CI-E	WCAt/1543
T1501630001	Field Blank	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
T1501630002	Duplicate	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
Γ1501630003	TH-78	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
Γ1501630004	TH-74	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
T1501630005	TH-75	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
Γ1501630006	TH-76	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
1501630007	TH-77	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
Г1501630008	TH-72	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
Г1501630009	TH-73	SW-846 3010A	DGMt/1046	SW-846 6010	ICPt/1031
T1501630001	Field Blank			EPA 350.1	WCAt/1564
Γ1501630002	Duplicate			EPA 350.1	WCAt/1564
Γ1501630003	TH-78			EPA 350.1	WCAt/1564
1501630004	TH-74			EPA 350.1	WCAt/1564
Г1501630005	TH-75			EPA 350.1	WCAt/1564
Γ1501630006	TH-76			EPA 350.1	WCAt/1564
Г1501630007	TH-77			EPA 350.1	WCAt/1564
T1501630008	TH-72			EPA 350.1	WCAt/1565
Г1501630009	TH-73			EPA 350.1	WCAt/1565
Γ1501630001	Field Blank			SM 2540 C	WCAt/1582
Γ1501630002	Duplicate			SM 2540 C	WCAt/1582
1501630003	TH-78			SM 2540 C	WCAt/1582
1501630004	TH-74			SM 2540 C	WCAt/1582
Г1501630005	TH-75			SM 2540 C	WCAt/1582

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: T1501630 SE County Landfill IAMP

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
T1501630006	TH-76			SM 2540 C	WCAt/1582
T1501630007	TH-77			SM 2540 C	WCAt/1582
T1501630008	TH-72			SM 2540 C	WCAt/1582
T1501630009	TH-73			SM 2540 C	WCAt/1582
T1501630007	TH-77			SM 4500-CI-E	WCAt/1590
T1501630008	TH-72			SM 4500-CI-E	WCAt/1590
T1501630009	TH-73			SM 4500-CI-E	WCAt/1590
T1501630003	TH-78	Field Measurements	FLDt/	Field Measurements	FLDt/
T1501630004	TH-74	Field Measurements	FLDt/	Field Measurements	FLDt/
T1501630005	TH-75	Field Measurements	FLDt/	Field Measurements	FLDt/
T1501630006	TH-76	Field Measurements	FLDt/	Field Measurements	FLDt/
T1501630007	TH-77	Field Measurements	FLDt/	Field Measurements	FLDt/
T1501630008	TH-72	Field Measurements	FLDt/	Field Measurements	FLDt/
T1501630009	TH-73	Field Measurements	FLDt/	Field Measurements	FLDt/

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	-																									-	-
£ /	\lesssim	7	H38	3WI	ΩN	.a	Ίλ	ЯO	ΤA	ROE	BΥ٦)S	(%)	cas	æ	\$	B					suffate)	(in degrees celcius)		ĝ	
7.837.1	12016																						T = (Sodium Thiosulfate)	degrees	S: 1	FOR DRINKING WATER USE (when PWS Information not otherwise supplied)	
¥ /	2		0. 40																				T= (Sod	€	M: 1A	t otherwi	
337.158					1991	inside:	(A)	9E 1 3	308														(HNO3)	7	A: 3A	nation no	
1.6639 04.363.9	850.219.																200000						M (M	- Medelye	<u>.</u>	WS Infor	
FL 3270	4.889.22 74 • Fax 630.432	\vdash							-														= (H2SC	ure when	G: LT-1 LT-2 (T: 109	(When P	
349 - Fa 363.935	- Fax 95 0.219.62 Fax 813	-		-						-	_							-					I = ioe H=(HCf) S = (H2SO4) N = (HNO3)	Temperature when received	G:LT:	SUSE	
Itamonte 52.377.2 16 • 904.	89.2288 301 • 850 30.9616 •	┝		-		71 - 71 <u>-</u>	_		' 2 I	,sA	-	-	.,		J			_	-				= ice H	-	J: 9A	/ATE	
1016 • A 2608 • 39 1, FL 322	5 - 954.8 9, FL 32 1 - 813.63	_		_							_	-	×	*	×	×	×	×		-	_	_		ecked	n used)	NG	
vd., Ste. ille, FL 3; ksonville	FL 33029 ahassee L 33619	L	_	_				-		СРІ	L		×	*	×	×	×	×	1			<u> </u>	Preservation Code:	Wifere required, pH checked	temp gu	RINK	
Gainesv Wy Jac	Airamar, Drive, Ta Tampa, F			L	10.0000		V-000-0		5	TDS	_		×	×	×	×	×	×			_		Preser	e require	circle IR	ORD	PWS ID:
8 S. Non st Blvd. • spoint Pk	Center I						N-	-sin	iow	mA			×	×	×	×	×	×					9.	Å	Jentifier (ā
5 SW 418 5 SW 418 81 South	SA loda 38 Cedar 285 Pain	3JT 8.3 39	ZIS	a≡	ווצו	פר	38 S	SIS	λT\	√N∀	SER-		j L										SL = sludge	١ ١	unique ic		
Additione Springs: 528 S. Northake Bivd., Sie. 1016 - Allamonte Springs, FL 32701 - 407,937,1594 - Fax 407,937,1597 (Gainesville: 4965 SW 41st Bivd Gainesville, FL 32608 - 352,377,2349 - Fax 352,395,6639 Gacksonville: 6861 Southpoint Pkwy Jacksonville: FL 32216 - 904,363,950 - Fax 904,363,9374 Missing 1999 - 1999	milaniar, 10200 USA Today Way, Miramar, FL 33025 • 934.889.2288 • Fax 934.889.2281 Tallahassee: 1288 Cedar Center Drive, Tallahassee, FL 32301 • 850.219.6274 • Fax 850.219.6275 Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327	ΜP									NO.	COUNT	3	_	-			>					SO = soil S		Device used for measuring Temp by unique identifier (circle IR temp gun used)	Time	5051
ackson	allahas ampa:	Southeast County Landfill - IAMP		Ilipu	ONS:						MATRIX		Mb)	_				>					A=air SO		measuring		メルド
		ounty La		Southeast County Landfill	REMARKS/SPECIAL INSTRUCTIONS:							TIME	9:50	1	14:01	11:37	81:61	13:37					O = oil A		nsed for	Î	
		east Co		east Co	SPECIAL						SAMPLING	Н		•	9	=	G.			-	-	-					1
			¥	South	EMARKS/							DATE	2.4.15					>					frinking v	ym blank	1	Secured by:	1
ے		:we:	P.O. Number/Project Number:	cation:	2						Grab	Comp	61	-			_	→					DW=	Temp from blank	1	1	1
	2	Project Name:	P.O. Num Number:	Project Location:																			nd water			1	/
Advanced Fovironmental Jahoratories Jec		s						2			N C		7			3							GW = ground water DW = drinking water	sample	1	Time	12/2/
1		tilitie	g Rd					regs			GRID		84	4	81	ī	S	و						ken from	1	1	
and the second		Hills. Co. Public Utilities	upne				_	2. PATTERSON	Ļ		SAMPLE DESCRIPTION		FIELD BLANK	Duplicate	TH-78	FF-74	74-75	TH-76					surface w	Tremp taken from sample	1	Pate	3.4.12
Advanced Favironme		o. Pu	Falke	19	3222	6801	e winse	7	RUSH	-	AMPI		E	Á	۲	۲	1	۲					SW=	<u>°</u>			,
		ls. C	orth	339	663-	274-	sel To	200		of:	ď.												stewater	w	_	ž.	Š
	A		332 North Falkenburg Rd	Florida 33619	(813) 663-3222	(813) 274-6801	Michael Townsel	BALL	STA	-		\exists						_				-	W = wa	Ę	3/19/2012	Relinquis	7
		Client Name:						Sampled By: A. GALLOON	Turn Around Time: K STANDARD	Page:	SAMPLEID							8					Matrix Code: WW = wastewater SW = surface water	Received on loe	Form revised 09/19/2012	_ /	<
C		Client	Address:	Татра,	Phone:	FAX:	Contact:	Sample	Tum Aro	ď	SAN												Matrix	Receive	Form re		-

Phone:

Contact Person: Supplier of Water:

PWS ID:



	Advanced Environmental Laboratories, Inc.	es, Inc.			Gaines Gaines Jackso Mirama Tallaha	nie Sprii ville: 4966 nville: 66 ir: 10200 U issee: 128	SW 41st B SW 41st B 81 Southpx SA Today B 8 Cedar C	S. Normlak Blvd. • Galr bint Pkwy. • Way, Miran enter Drive eve • Tam	e Bivo., Sv lesville, FL Jacksonvi nar, FL 330 , Tallaftass	25608 - 352 32608 - 352 16, FL 32216 25 - 954,889 ee, FL 3230 19 - 813,630	377.2349 • 904.363.9 • 904.363.9 • 1 • 850.219	☐ Attainonité Springs: 528 S. Normake Bivd., Ste. 1010 • Attainone Springs, FL 32/01 • 407.537.1384 • Fax 407.537.1387 ☐ Gainesville: 4965 SW 41st Bivd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639 ☐ Jacksonville: 6881 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.383.9356 • Fax 904.363.9354 ☐ Miramar: 10200 USA Today Way, Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281 ☐ Milahassee: 1288 Cedar Center Drive, Flankassee, FL 32301 • 856.219.6274 • Fax 650.219.6275 ☐ Tambar: 6410 Princess Pain Ave. • Tambar FL 38619 • A13.630 6416 • Fax 653.219.6375	-407.937.15 9639 4.363.9354 1.362.19.6275	71ST	T1501630	. 0
Client Name:	Hills. Co. Public Utilities	Project Name:	Sou	Southeast County Landfill - IAMP	Landfill - L	AMP	311 33		_	_		_			r	1
Address: 33,	332 North Falkenburg Rd.	P.O. Number/Project Number.	N/A peio				TOB SIS	200000000		-						3EE
Tampa, Florida 33619		Project Location:		Southeast County Landfill	Landfill		ŒΞ	398								IME
Phone: (81	(813) 663-3222		REMARK	REMARKS/SPECIAL INSTRUCTIONS:	UCTIONS:		ואו									٦N
FAX: (81	(813) 274-6801						פטר	20								.a.
Contact: Mic	Michael Townsel						3 K	N-		e 						ΙA
Sampled By: A. GALLOON	ALLON / Z. PATTERSON						SIS	ein		er.						SO.
Turn Around Time:	5						۸٦¥	ow		orio Fe						TAS
Page: 1	of: 1		,				'Ν∀	mA	aT							3OF
CAMBIE	SAMPLE DESCRIPTION	ō	- g	SAMPLING	MATDIY	_	NOI SER-			_					Γ	3AJ
SAMPLE ID	SAMPLE DESCRIPTION	ပိ	Comp	DATE TIME	MAIRIA	COUNT	TAV									
	TH-77	-	6 2.5	2-5-15 13:50	WA	3		×	×	×					0	t as
	ET-HT	15	_	Ex:11	_	_		×	×	×						B
	TH-73		_	10:34	→	>	46	×	×	×)	3
									11 100							1
			-				186 1014 1286				_					
													-			1
			-	_			65, 13- 13-13-13-13-13-13-13-13-13-13-13-13-13-1			-		-				
	a	<u> </u>	-													1
			-	_												
			┼				1 2						_			
Matrix Code: WW = wastewater	SW = surface water	GW = ground water DW = drinking water	V = drinking	gwater 0 = oil	A = air	S los = OS	SL = sludge		reservatio	Code: I=	ioe H=(HCl	Preservation Code: 1 = ice H=(HCi) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfat	4) N = (HNO	3) T = (Sox	dium Thios	훃
Received on Ice	Yes No Temp taken from sample	Tem	Temp from blank	¥			Ь	■ Where required, pH checked	quired, pH	checked	Temp	Temperature when received	received	٦	(in degrees celciu	충
Form revised 09/19/2012	72012			Device use	Device used for measuring Temp by unique identifier (circle IR temp gun used)	ing Temp by	unique ide	ntifier (circ	le IR temp	(pesn und	J: 9A G:	G: LT-1 LT-2 T: 10A	T: 10A A:	A:34 M:1A	S: 1	- 1
Reli	Relinquished Wr Date Time	1	Meceived by	Dv.	Date	Time		5	R DRIN	W SNIX	TER U	FOR DRINKING WATER USE (when PWS Information not otherwise supplied)	/S Information	not otherwi	belladus es	=

2.5.15

SITE S	outheat	st Coun	ty Lane	Ifill - I	AMP ST	TE CATION:	***				
WELL NO:		4-76	1	SAMPLE	ID: T	H-76)	1	DATE:	2-4-15	
					PURG	ING DA	TA				
WELL DIAMETER	(inches):	TUBING	R (inches):	72 DEF	LL SCREEN	et to 177 35	STATIC D	R (feet): 74.	46 PUF	RGE PUMP TYPE BAILER:	P
	UME PURGE: if applicable)	1 WELL VOLU				74.40	O WATER) X	WELL CAPAC	ITY	16.63	
FOUIPMEN	IT VOLUME PL	JRGE: 1 EQUI	= (178.35fee	H - UME + (TUB			BING LENGTH	gallons/foo) + FLOW CE	LL VOLUME	gallons
	if applicable)				allons + (ns/foot X	feet)+	gallons =	gallons
	MP OR TUBING WELL (feet):	G 177.35	FINAL PUM DEPTH IN V	P OR TUBINO WELL (feet):	·17.39	PURGIN	G AT: 12:45	PURGING ENDED AT:	13,37	TOTAL VOLUMI PURGED (gallor	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or	OXYGEN (circle units) (circle units) (r) % saturation	TURBIDIT (NTUs)	(describe)	ODOR (describe)
13:19	17	7	.50	75.30	7,43	22.64	525	.27	.69	None	MONE
13:28	4.5	21.5	.50	75.30	7.44	2205	525	. 26	.64) (1
13:37	4.5	26.0	.50	75.30	7.44	22.65	525	. 27	.67	1 4	V
				7		6 233		7			
								/			1/
			/	1	a a						
7											/_
											1
	10 2000										
		s Per Foot): 0.7 ACITY (Gal./Ft		1" = 0.04; 0006; 3/16"	1.25" = 0.00 = 0.0014;						= 5.88 = 0.016
PURGING E	EQUIPMENT C	ODES: B =	Bailer; E	BP = Bladder F			Submersible Pur	np; PP = P	eristaltic Pum	p; O = Other	(Specify)
CAMPLED	BY (PRINT) / A	FEH IATION:		SAMPLER(S)		LING DA				T	71 12 17
		ACK PATTERS	ON		SIGNATURE	Joel 1	Mour	SAMPLING INITIATED A		SAMPLING ENDED AT:	3:42
PUMP OR 1 DEPTH IN V	TUBING WELL (feet):	(77	25	TUBING MATERIAL C	ODE:	T		FILTERED: Y on Equipment Ty		FILTER SIZE:	µm
FIELD DEC	ONTAMINATIO	ON: PUMP	Y N	Dedicated	TUBIN	NG Y	N Dedicated	DUPLICATE:	Y	(A)	
SAMP	LE CONTAINE	R SPECIFICAT	ION		SAMPLE PR	RESERVATIO	N	INTEND			MPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL ,	VOLUME	PRESERVAT USED		OTAL VOL D IN FIELD (FINAL nL) pH	ANALYSIS A METHO			LOW RATE L per minute)
						_/					
				/							
SEE C	OC FOR	ANALYS	sis 4	<							
MATERIAL	*****	AG = Amber G		Clear Glass;	PE = Poly	ethylene;	PP = Polypropyl	ene; S = Silico	one; T = Te	flon; O = Other	(Specify)
SAMPLING	EQUIPMENT			istaltic Pump;	B = Bail	ler; BP =	Bladder Pump; Method (Tubing	ESP = Electr	ic Submersibl		

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)

SITE C	outheas	t Count	y Landf	III - TA	MP ST	TE CATION:		10.			
WELL NO:		TH-75		SAMPLE		TH - 75	<u>.</u>		DATE: 2	1-4-15	
					PURG	SING DA	TA				
WELL DIAMETER	(inches):	TUBING DIAMETI	ER (inches):	/2 DEP	SCREEN I	et to 17 f	STATIC D	R (feet):	OR E	GE PUMP TYPE BAILER:	2
	UME PURGE: if applicable)	1 WELL VOL	JME = (TOTA = (17 feet		7.80	O WATER) X	WELL CAPAC	gallons/foot	. 1.48	gallons
	if applicable)	URGE: 1 EQUI	PMENT VOL.		JME + (TUB		TY X TU	BING LENGTH			
		2 72	76 12	= ga	ions + (ns/foot X	feet)+	gallons =	gallons
	MP OR TUBIN WELL (feet):	6 16		P OR TUBING NELL (feet):	16	PURGIN	G 11:55	PURGING ENDED AT:	12:18	PURGED (gallor	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or µ√cm	OXYGEN (circle units) mg or % saturation	TURBIDITY (NTUs)	(describe)	ODOR (describe)
12:10	1.5	1.5	.10	7,860	5.60	21.68	प्रथप	.60	2.43	Nonc	NONE
12:14	.40	1.90	.10	7.86	5.59	2166	443	.58	2.01		1
12:18	,40	2.30	.10	7.86	5,57	21.68	443	.55	1.79	W	V
			7								
/			<u> </u>		/	/					
		/						_/		1	-
										$\overline{}$	
					7					/	$\overline{}$
				1	-/				1		
WELL CAP	ACITY (Gallon SIDE DIA, CAI	s Per Foot): 0. PACITY (Gal./Fi	75" = 0.02; 1/8" = 0.0		1.25" = 0.06	1/4" = 0.002				T	= 5.88 = 0.016
PURGING	EQUIPMENT C	ODES: B=	Bailer; E	BP = Bladder P			Submersible Pun	np; PP = P	eristaltic Pump	o; O = Other	Specify)
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLER(S)		LING DA	711	SAMPLING		SAMPLING	
ANDREW E	BALLOON / Z	ACK PATTERS	ON		_	/all	Susum	INITIATED A	T: 12:18	ENDED AT:	2:23
PUMP OR	TUBING WELL (feet):	16	1	TUBING MATERIAL CO	DE:	T		FILTERED: Y in Equipment Ty	pe:	FILTER SIZE:	µm
FIELD DEC	ONTAMINATIO	ON: PUMP	Y N	edicated	TUBIN	IG Y	N Bedicated	DUPLICATE:	(8)	N	
SAMP	LE CONTAINE	R SPECIFICAT	ION		SAMPLE PR	ESERVATIO	N	INTENDI			MPLE PUMP LOW RATE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIV USED		OTAL VOL D IN FIELD (r	nL) FINAL pH	ANALYSIS A METHO			per minute)
									-		77 1917
					_						
		-									
						/					
SEE C	OC FOR	ANALYS	SIS	<u>_</u>					- 200		
MATERIAL	CODES:	AG = Amber G	lass; CG =	Clear Glass;	PE = Poly	ethylene;	PP = Polypropyle	ene; S = Silico	one; T = Tef	lon; O = Other	(Specify)
AMPLING	EQUIPMENT			istaltic Pump; e Flow Peristalt	B = Bail c Pump;		Bladder Pump; Method (Tubing (ic Submersible O = Other		

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

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

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

WELL NO:	TH	1-74	35	SAMPLE II):	TH-7	4		DATE: 2-	4-15	1
					PURG	ING DA	TA				
WELL DIAMETER	(inches): 2	TUBING	ER (inches):	/2 DEPT	H: 7 fe	INTERVAL et to 17 fe	STATIC D	R (feet): 7. 2	3 PURG OR B	AILER:	<u> </u>
only fill out	if applicable)		= (17 feet	_	9.33	feet) X	WELL CAPACI	gallons/foot	. 1.23	gallons
	if applicable)	RGE: 1 EQU	IPMENT VOL.	= PUMP VOLUI = galk	ME + (TUB ons + (TY X TO	JBING LENGTH) feet)		gallons =	gallon
	MP OR TUBING WELL (feet):	16	FINAL PUM DEPTH IN V	P OR TUBING VELL (feet):	16	PURGIN INITIATE	G DAT: 11:16	PURGING ENDED AT:		TOTAL VOLUMI PURGED (gallor	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	(feet)	pH (standard units)	TEMP.	COND. (circle units) µmhos/cm or	OXYGEN (circle units) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describ
11:29	1.3	1.3	.10	9.64	<u>5,59</u>	21.32	774	.97	3.75	NONE	Now
1:33	.40	1.7	.10		5,57	21.35	774	רר.	3.38		1
11:37	.40	2.1	1.10	964	5,58	21.36	771	.68	2.63	3 4	1
/											
_					_						
		/			-					/	
		/						/		+/-	
	(
VELL CAP UBING IN	ACITY (Gallon: SIDE DIA. CAP	Per Foot): 0 ACITY (Gal./F	.75" = 0.02; t.): 1/8" = 0.0		.25" = 0.06 0.0014;	1/4" = 0.002	6; 5/16" = 0.	004; 3/8" = 0	.006; 1/2" =	= 0.010; 5/8**	= 5.88 = 0.016
URGING I	QUIPMENT C	ODES: B	= Bailer; B	P = Bladder Pu		SP = Electric	Submersible Put	mp; PP≈Pe	eristaltic Pump;	O = Other	Specify)
	BY (PRINT) / A ALLOON / Z			SAMPLER(S) S		1000	Marin	SAMPLING INITIATED AT	1:37	SAMPLING ENDED AT:	1:42
PUMP OR T	TUBING WELL (feet):	16	1	TUBING MATERIAL COL	DE:	Т	FIELD	FILTERED: Y		FILTER SIZE:	
IELD DEC	ONTAMINATIO	N: PUMP	YN	Redicated	TUBIN	IG Y	N edicates	DUPLICATE:	Υ	(A)	
SAMP	LE CONTAINE	R SPECIFICA	TION	S	AMPLE PR	ESERVATIO	N	INTENDE			MPLE PUM
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVI USED		OTAL VOL D IN FIELD (r	nL) FINAL pH	ANALYSIS AI			LOW RATE
			-		2		-				
					-			-			
-+		-			+	_		 			
					+	/					
				\sim							
SEE C	OC FOR	ANALY	sis 🐇	<				10			

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

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

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

WELL NO:		TH-78		SAMPLE		TH-78				DATE: 2	4-15	
		14. 10			PURG	ING DA						
WELL DIAMETER	(inches):	TUBING DIAMETI	ER (inches):	1/a WEI	L SCREEN	NTERVAL	STA		R (feet):	ORE	GE PUMP TYPE BAILER: BP	
only fill out	if applicable)	1 WELL VOL	JME = (1017	8.14 fee	t -	76.2	feet)	x	.16 BING LENGTH)	gallons/foot	= 16.31	gallons
	T VOLUME PU if applicable)	JRGE: 1 EQUI	PMENT VOL.		olions + (TUB		TY X	108	feet)		gallons =	gallon
	MP OR TUBIN	6 177.14	FINAL PUM DEPTH IN V	P OR TUBINO VELL (feet):	177.14	PURGIN INITIATE		50	PURGING ENDED AT:	10:41	TOTAL VOLUME PURGED (gallons	25.5
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle un µmhos/o	its)	OXYGEN (circle units) (circle units) (circle units) (circle units)	TURBIDIT (NTUs)	COLOR (describe)	ODOR (describ
0:23	14.5	16.5	.50		8.35	22.93			. 33	282	NONE	NON
0:33	4.5	21	.50	76.21	8.27		60	2	.31	175		1
0:41	4.5	25.5	.50	76.21	8.25	22.95	60	1.	.32	.96	×	V
								-	7			
			1									
							300.00	4			1	_/
							/					/
		/	Ĺ									
								1				1
VELL CAP	ACITY (Gallon SIDE DIA, CAR	s Per Foot): 0. PACITY (Gal./FI			1.25" = 0.06 = 0.0014;	1/4" = 0.002).37; " = 0.00				= 5.88 = 0.016
	QUIPMENT C			P = Bladder F		SP = Electric		le Pum	p; PP≈Pe	ristaltic Pump); O = Other (Specify)
			19			LING DA	TA.					
	BY (PRINT) / A ALLOON / Z	FFILIATION: ACK PATTERS	ON	SAMPLER(S)	SIGNATURE	Today	Mo	7-	SAMPLING INITIATED AT		SAMPLING ENDED AT: 1	0146
UMP OR T	UBING VELL (feet):	177.1		TÜBING MATERIAL C	ODE:	Т			ILTERED: Y Equipment Type		FILTER SIZE:	µт
	ONTAMINATIO			Oédicated	TUBIN	G Y	N Dedica		DUPLICATE:	Y	6	
		R SPECIFICAT			SAMPLE PR				INTENDE	D S		IPLE PUM
SAMPLE	#	MATERIAL	X192 108060 C	PRESERVAT		OTAL VOL	FIN	IAL	ANALYSIS AN	ND/OR EQ	UIPMENT FL	OW RATE
D CODE	CONTAINERS	CODE	VOLUME	USED	ADDE) IN FIELD (r	nL) pi	н	MEIHO		CODE (IIIC	per minut
			-+					$\overline{}$				
							4	-				-
				+	\rightarrow		-	-				
							-+					
SEE C	OC FOR	ANALYS	sis "									
	CODES:								THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			

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

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

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

SITE <	boutheas	+ County	Landfi	u - IAM	P SI	CATION:		e 18	Mar e er	14		
WELL NO		ELD BU		SAMPLE ID		CELD	BH	NK		DATE:	2-4-15	
					PURG	ING DA	TA					
WELL		A DIAMET	ER (inches):	TH DEPTH	: - fe	NTERVAL et to - fe	et T	TATIC DI	R (feet):		URGE PUMP T R BAILER:	YPE N/A
WELL VO	LUME PURGE: t if applicable)	1 WELL VOL	UME = (TOT	AL WELL DEPTH	- STA	TIC DEPTH TO	_	_	WELL CAPAC		2	/
	NT VOLUME PI	URGE: 1 EQUI	PMENT VOL	. = PUMP VOLUM	ME + (TUB	ING CAPACIT		et) X X TU	BING LENGTH	gallons/fo	ELL VOLUME	gallons
(Olly Ini Oc	it it appearance	- Dia	19	= gallo	ns + (gallon	s/foot >		fee	0	gallons	
	JMP OR TUBIN WELL (feet):	G N/A		MP OR TUBING WELL (feet):	N/A	PURGING	_	N/A	PURGING ENDED AT		PURGED (
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH standard units)	TEMP. (°C)	COI (circle µmho QI µ	units) os/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIC (NTU:		
			7				7.					
/					/	/				1		/
(_		1	1.		1000	1		2				
		1					_/		/	1		
		1	171				_	1		A 11		
					\mathcal{X}			M		$4 \times 1^{\circ}$	\searrow	
		/	1	4-6	4	1	/	- 4	-, -,	0 1	/	
										/		
				1								
				()						1/		
				1 4				ليب				
TUBING IN	PACITY (Gallon	s Per Foot): 0. PACITY (Gal./F	.75" = 0.02; t.): 1/8" = 0.0		25" = 0.06 0.0014;	5; 2" = 0.16 1/4" = 0.0026		= 0.37; 16" = 0.0	4" = 0.65; 004; 3/8" =		6" = 1.47; 2" = 0.010;	12" = 5.88 5/8" = 0.016
PURGING	EQUIPMENT O	ODES: B	= Bailer; I	BP = Bladder Pun		SP = Electric S		sible Pun	np; PP = i	Peristaltic Pu	mp; 0 = 0	ther (Specify)
	B1 (BB117) (SECULATION.				LING DA	}					
	BY (PRINT) / A BALLOON / Z		ON	SAMPLER(S) SI	SNATUR	Just	tte	Don-	SAMPLING INITIATED	AT: 9:50	SAMPLIN ENDED A	
PUMP OR DEPTH IN	TUBING WELL (feet):	~/A		TUBING MATERIAL COD	E: -	Т			FILTERED: \\ n Equipment T		FILTER S	IZE: µm
FIELD DE	CONTAMINATIO		Y N	Dedicated	TUBIN	10 Y	Ded	licated	DUPLICATE	: Y	(5)	
SAM	PLE CONTAINE	R SPECIFICAT	TION	SA	MPLE PR	ESERVATION	1		INTEND		SAMPLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED		OTAL VOL D IN FIELD (#		FINAL pH	ANALYSIS / METHO		CODE	(mL per minute)
								-		-		
								_				
							1					0.055.00
	2000					$\overline{}$						
SEEC	OC FOR	ANAI V	sis A									
MATERIAL		AG = Amber G		Clear Glass;	PE = Poly	ethylene; I	PP = Po	lypropyle	ene; S = Silic	one; T=	Teflon; O = C	Other (Specify)
	S EQUIPMENT	CODES: A	PP = After Pe	ristaltic Pump; e Flow Peristaltic	B = Bail	er, BP = E	Bladder	Pump;	ESP = Elec	tric Submers	ible Pump;	

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

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

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

SITE <	Souther	st Count	y Landf	H - IAO	P SI	TE CATION:					5		
WELL NO:	-	uplicate	-	SAMPLE ID):	Dupl	ical	e		DATE:	2.4	-15	
			3555556		PURC	SING DA	TA						
WELL	R (inches):	A TUBING	ER (inches):	A DEPTI	1: - fe	INTERVAL et to fe	et T		R (feet):	T	PURGE PU	UMP TYPE R:	M/A
WELL VOI	UME PURGE: if applicable)	1 WELL VOL	1		- STA	TIC DEPTH T			WELL CAPA				
EQUIPME	NT VOLUME P	UBSE: 1 EQU	PMENT VOL.	FUMP VOLUM	ME + (TUE	HIG CAPACIT	TY "	x To	BING LENGTI	d) + FLOV	s/foot/= NOELL VO	LUME	gallons
(only fill ou	t Napplicable)			= galk	элs + (gallor	s/foot	x	Tet	1) +	9	allons =	gallons
	JMP OR TUBIN WELL (feet):	G N/A	FINAL PUMI DEPTH IN W	OR TUBING /ELL (feet):	N/A	PURGIN		NA	PURGING ENDED AT	N/A		AL VOLUME GED (gallons): M/#
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH standard units)	TEMP.	(circle	ND. e units) os/cm s/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURE	BIDITY (Us)	COLOR (describe)	ODOR (describe)
				\rightarrow			_			-			-
			//										
			X.		Χ,		/			1			
		$\perp \perp$	1 - M	14) /	17	-		1-1	1	7	/	
		X	1	1	-	$ \mathcal{X} $	1	-/4	11			_/	
				1	-			- [1	-	/	
						1		\nearrow		1	- /		1
													(
											4		
	PACITY (Gallon ISIDE DIA, CAI				.25" = 0.00 0.0014;	6; 2" = 0.16 1/4" = 0.0026		= 0,37; /16" = 0.6		5" = 1.0; 0.006;	2; 6" = 1 1/2" = 0.01		5.88 0.016
PURGING	EQUIPMENT C	ODES: B	= Bailer; B	P = Bladder Pur		SP = Electric S		sible Pur	mp; PP = f	Peristaltic	Pump;	O = Other (S	Specify)
SAMPLED	BY (PRINT) / A	FFILIATION:	18	AMPLER(S) SI		LING DA	17/11		CAMPUNIC	• 1	/ 100	NO. INC.	. /
	BALLOON / Z					/ock	w	u -	SAMPLING INITIATED	T: 1		MPLING DED AT:	YA
PUMP OR DEPTH IN	TUBING WELL (feet):	N		UBING MATERIAL COD	E:	T			FILTERED: Y		FIL	TER SIZE:	μm
FIELD DEC	CONTAMINATIO	ON: PUMP	Y N	Dedicated	T UDII	10 Y 1	V Dec	ficated	DUPLICATE	: (Y	N		
SAME	PLE CONTAINE	R SPECIFICA	TION	SA	MPLE PR	ESERVATION	4		INTEND		SAMPLI		PLE PUMP
SAMPLE ID CODE	CONTAINERS	MATERIAL CODE	VOLUME F	RESERVATIVE USED		OTAL VOL D IN FIELD (m		FINAL pH	ANALYSIS /		CODE		OW RATE per minute)
					-		-			_		_	
					-			_				_	
					+-		-					_	
								1000000					
SEEC	OC FOR	ANAI V	sis Z										
MATERIAL		AG = Amber G		lear Glass;	PE = Poly	ethylene; i	PP = Pc	olypropyle	ene; S = Silic	one; T	= Teflon;	O = Other (Specify)
SAMPLING	EQUIPMENT		PP = After Peris		B = Bail		Bladder		ESP = Elect				

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

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

pH: ± 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)

NAME: 5	outhers		y land			CATION:				E 15	
WELL NO:		H-77	<u> </u>	SAMPLE		H-77			DATE: A	-5-15	
WELL DIAMETER ((inches):	TUBING DIAMETE	ER (inches):	/a DEP	L SCREEN I	et tolog. 26	STATIC D	R (feet): Och	JO ORE	GE PUMP TYPE BAILER:	
(only fill out i	(applicable)	1 WELL VOLU	= (1	69.2 fee	t -	82.7	OWATER) X feet) X Y X TV	.16 BING LENGTH	gallons/foot	_ 13.84	gallons
(only fill out i		RGE: 1 EQUI	MENT VOL.		allons + (ns/foot X	feet)		gallons =	gallons
INITIAL PUN DEPTH IN W	P OR TUBING	168.2	FINAL PUMI DEPTH IN V	OR TUBINO		Tempore			12:50	TOTAL VOLUME PURGED (gallor	21.0
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	OXYGEN (circle units) mg) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe
12:36	14	14	.50	83,32	7.38	23,20	492	. 20	.82	None	Now
12:43	3.5	17.5	.50	83,32	7.39	23,21	492	. 24	.52	1.1	1.1
2:50	3.5	21.0	.50	8333	7.39	23,20	492	.20	.51	4	TA.
	/_			-				7 -			+
-A						$\overline{}$	-/			1	1
-	-										
					300000000000000000000000000000000000000					/	
										/	17
WELL CAR	CITY (Gallon	s Per Foot): 0.	75" = 0.02-	1" = 0.04;	1.25" = 0.06	3: 2" = 0.1	8: 3" = 0.37;	4" = 0.65;	5" = 1.02;	6" = 1.47; 12"	= 5.88
TUBING INS	IDE DIA. CA	PACITY (Gal./Ft	.): 1/8" = 0.0	006; 3/16"	= 0.0014;	1/4" = 0.002	6; 5/16" = 0.0	004; 3/8" = 0	.006; 1/2"	= 0.010; 5/8"	= 0.016
PURGING E	QUIPMENT C	ODES: B=	Bailer, B	P = Bladder F		LING DA	Submersible Pun	np; PP = Po	eristaltic Pump); O ≃ Other	(Specify)
SAMPLED B	Y (PRINT) / A	FFILIATION: ACK PATTERS	ON	SAMPLER(S)	SIGNATURE		the	SAMPLING INITIATED AT	12:50	SAMPLING ENDED AT:	2:55
PUMP OR T	UBING	11.00	0	TUBING	-			FILTERED: Y	(N)	FILTER SIZE:	µm
DEPTH IN V	VELL (feet):	168 ON: PUMP		Dedicated	DDE: TUBIN	T IG Y	N Dedicate	DUPLICATE:	pe: Y	(A)	
		R SPECIFICAT		Dedicates	SAMPLE PR			INTENDE			MPLE PUMP
SAMPLE	# CONTAINERS	MATERIAL	The second second	PRESERVAT USED	VE T	OTAL VOL D IN FIELD (FINAL	ANALYSIS A	ND/OR EQ	UIPMENT F	LOW RATE L per minute
									_		
					+	/					
			4						-		
SEE CO		ANALYS		Clear Glass:	DE - Date	othylaca:	PP = Polypropyle	ene: S = Silico	ne: T = Tef	lon; O = Other	/Specific
	EQUIPMENT	-	P = After Peri		PE = Polye	•	Bladder Pump;		ic Submersible		(Opecity)

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 S	outheast	Count	y Land	fil - IA	Me SI	CATION:					
WELL NO:		4-72		SAMPLE		TH-7	a		DATE: 2	-5-15	
					PURG	SING DA	TA				
WELL	(inches):	TUBING DIAMET	ER (inches):	/2 DEP	L SCREEN TH: 150 fe	et to 190 fe	STATIC D	R (feet): " >	OR B	GE PUMP TYPE AILER:	
(only fill out	if applicable)		(90 fee	t -	93.9	5 feet) X	WELL CAPAC	gallons/foot		t gallons
	IT VOLUME PO if applicable)	JRGE: 1 EQUI	PMENT VOL.		UME + (TUB illons + (ΓΥ X TU ns/foot X	JBING LENGTH		L VOLUME gallons =	gallons
	MP OR TUBIN WELL (feet):	G 189	FINAL PUM DEPTH IN V	P OR TUBING VELL (feet):	189	PURGIN	G D AT: 10:55	PURGING ENDED AT:	11:42	TOTAL VOLUM PURGED (gallo	ns): 23.5
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 (S/Cr)	DISSOLVED OXYGEN (circle units) or % saturation	TURBIDITY (NTUs)		ODOR (describe)
11:26	15.5	15.5	.50	94.02	6.71	23,29	2529	.53	2.25	NONE	Nove
11:34	4	19.5	.50	9402	6.72		2539	.54	1.62		1
11:42	4	23.5	.50	94.02	6.71	23,27	2540	.57	2.29	1	V
			7				7			1/	-
-/					/				f		-
		/			_/						1
	-/				-					 	1/
	16										
WELL CAP	ACITY (Gallon ISIDE DIA. CAI	s Per Foot): 0. PACITY (Gal./F	75" = 0.02; .): 1/8" = 0.0	1" = 0.04; 006; 3/16"	1.25* = 0.00 = 0.0014;	6; 2" = 0.10 1/4" = 0.002		4" = 0.65; 004; 3/8" = 0			= 5.88 = 0.016
PURGING	EQUIPMENT C	ODES: B	Bailer; B	P = Bladder P			Submersible Pu	mp; PP = P	eristaltic Pump	; O = Other	(Specify)
SAMPLED	BY (PRINT) / A	FEILIATION:	- 1	SAMPLER(S)		LING DA	VIII.			CAMPUNO	
ANDREW	BALLOON / Z	ACK PATTERS	ON			/cek1	teun	SAMPLING INITIATED A	1: [1:43	SAMPLING ENDED AT:	11:47
PUMP OR DEPTH IN	TUBING WELL (feet):	180		TUBING MATERIAL CO	DDE:	T		FILTERED: Y		FILTER SIZE:	µm
FIELD DEC	ONTAMINATIO	ON: PUMP	Market Annual Control	Dedicated	TUBI	NG Y	N Gedicates	DUPLICATE:	Y	(I)	
SAM	PLE CONTAINE	R SPECIFICAT				RESERVATIO		INTEND			MPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL D IN FIELD (r	nL) FINAL	METHO			L per minute)
						-	-				
N. 1800						(C)					
				/							
SEE C	OC FOR	ANALYS	sis E								
MATERIAL		AG = Amber G		Clear Glass;	PE = Poly	ethylene;	PP = Polypropyl	ene; S = Silico	one; T = Teff	on; O = Other	r (Specify)
SAMPLING	EQUIPMENT		PP = After Per PP = Reverse	istaltic Pump; Flow Peristal	B = Bai tic Pump;		Bladder Pump; Method (Tubing		o = Other (
OTES: 1	The above	to not consti	tute all of th	ne informati	on require	d by Chapte	er 62-160, F.A	.C.			

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

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

Revision Date: February 2009

Monday, February 23, 2015 12:18:06 PM

SITE <	outhers	+ Com	y Lend	f.u - I/	MP ST	TE CATION:					
WELL NO:		TH-7	•	SAMPLE		TH-7	3		DATE: 2	-5-15	
					PURG	ING DA	TA				
WELL	(inches):	TUBING	ER (inches):	1/a WE	LL SCREEN TH:33.4fe	INTERVAL et to 43.4	STATIC D	EPTH 30.		GE PUMP TYPE BAILER:	
	UME PURGE: if applicable)	1 WELL VO	UME = (TOT)	43.4 fee		TIC DEPTH T	feet) X	WELL CAPAC		= 2.08	
EQUIPMEN	T VOLUME P	URGE: 1 EQL					rooty A	BING LENGTH	+ FLOW CEL	LVOLUME	gallons
(only fill out	if applicable)	n 100		= ga	allons + (gallo	ns/foot X	feet)	•	gallons =	gallons
	MP OR TUBIN WELL (feet):	^G 42.4		MP OR TUBING WELL (feet):	424	PURGIN	EDAT: 10:00	PURGING ENDED AT:	10:39	TOTAL VOLUME PURGED (gallor	s): 3.30
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 6/ch	OXYGEN (circle units) (circle units) (circle units) (circle units)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:27	2.10	2.10	.10	30.96	4.81	24.93	481	. 56	7.10	NONE	NOW
10:33	.60	2.70	.10	30.96	4.81	24.95	482	.52	7.56	1	1
10:39	.60	3.30		30.94	4.82	24.90	481	.52	7.48	V	V
			-								
/			1/	79							/
/					_/						<u>/</u>
								_/		/	
			1								
										\perp	
		-							100000000000000000000000000000000000000	1	1
											1
TUBING IN	ACITY (Gallon SIDE DIA, CAI	s Per Foot): C PACITY (Gal./F	0.75" = 0.02; (L): 1/8" = 0.0	1" = 0.04; 0006; 3/16"	1.25" = 0.06 = 0.0014;	1/4" = 0.002					= 5.88 = 0.016
PURGING	EQUIPMENT C	ODES: B	= Bailer; E	BP = Bladder P			Submersible Pun	np; PP = Pe	eristaltic Pump	O = Other (Specify)
	1000				SAMP	LING DA	ATA	·	200		
	BY (PRINT) / A BALLOON / Z		SON	SAMPLER(S)	SIGNATURE	Take 1.	ther	SAMPLING INITIATED AT	10:39	SAMPLING ENDED AT:	0:44
PUMP OR	TUBING WELL (feet):	42.		TUBING MATERIAL CO	DDE:	T		FILTERED: Y n Equipment Ty		FILTER SIZE:	µm
FIELD DEC	ONTAMINATIO	N: PUMP		Dedicaled	TUBIN	IG Y	N OSCICATED	DUPLICATE:	Y	(B)	
SAME	LE CONTAINE	R SPECIFICA	TION		SAMPLE PR	ESERVATIO	N	INTENDE			MPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED		OTAL VOL D IN FIELD (r	nL) FINAL	ANALYSIS AI			OW RATE per minute)
										8	
				_							
CEE C	00 500	ANIALY	cic 4	_							
	OC FOR			Clear Class	DE - D-1	-th-dag-	DD = Debuses de	0 - 01F		0 0	(0
MATERIAL		AG = Amber (Clear Glass;	PE = Poly		PP = Polypropyle				(Specify)
SAMPLING	EQUIPMENT		PP = After Per FPP = Reverse	ristaltic Pump; e Flow Peristal	B = Bail tic Pump;		Bladder Pump; Method (Tubing (c Submersible O = Other (

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)

6601 Southpoint Parkway Jacksonville, Florida 32216 (904) 363-9350 FAX (904) 363-9354

QCBatch:

WCAt-1590

Method:

SM 4500-CL-E

PrepMethod:

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation:

All holding times were met.

Analysis:

All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration:

All acceptance criteria were met.

B. Blanks:

All acceptance criteria were met.

C. Duplicates:

All acceptance criteria were met.

D. Spikes:

The matrix spike recoveries of Chloride for T1501630007 were outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Serial Dilution:

All acceptance criteria were met.

F. Samples:

Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette: